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ANNUAL REPORT

OF THE

Departments of Government

OF THE

CITY OF CLEVELAND

11-7002-

FOR THE

Year Ending December 31, 1898.

THE CLEVELAND PTG. & PUB. CO.

1899.

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1898.

CITY GOVERNMENT
OF THE
CITY OF CLEVELAND.

MAYOR,
HON. ROBERT E. MCKISSON.

DIRECTOR OF LAW,
MINER G. NORTON.

DIRECTOR OF PUBLIC WORKS,
GEORGE R. WARDEN.

DIRECTOR OF POLICE,
EDWARD A. ABBOTT.

DIRECTOR OF FIRE SERVICE,
GEORGE L. HECHLER.

DIRECTOR OF ACCOUNTS,
HORACE L. ROSSITER.

DIRECTOR OF CHARITIES AND CORRECTION,
WILLIAM J. AKERS.

SECRETARY,
EDWARD A. ROBERTS.

CITY CLERK,
HOWARD H. BURGESS.

ASSISTANTS,
ALBERT B. HALL,
CHARLES F. COWELL,
EVERTON E. BUCKLEY.

COUNCIL.

1898-'99.

OFFICERS.

GEORGE H. BILLMAN,
President.

F. F. KLINGMAN,
Vice-President.

MEMBERS OF THE COUNCIL.

WARDS.	DIST.	NAMES.	RESIDENCE.	PLACE OF BUSINESS.	TEL.
1-2 } 3-4 }	1	{ † D. B. Steuer..... * Frank Billman.....	465 St. Clair St..... The Stillman.....	465 St. Clair St..... 931 Society for Savings.....	M 2398 M 103
5-6 } 7-8 }	2	{ † P. J. McKenney..... * J. R. O'Donnell.....	21 Kelley St..... 53 Davenport St.....	21 Kelley St..... 733 Lake St.....	E 886
9-18 } 19 }	3	{ † H. M. Case..... * G. C. Ashmun.....	64 Sixth Ave..... 794 Republic St.....	Central and Canal, Tel. M 2760.. 794 Republic St.....	E 828 D 92 J
10-11 } 12-14 }	4	{ † G. H. Billman..... * M. W. Cope.....	873 Prospect St..... 928 Case Ave.....	931 Society for Savings..... 62 Case Building.....	M 108 M 931
13-15 } 16-17 }	5	{ † C. A. Witzel..... * Wm. Schnerer.....	173 Arlington St..... 232 Osborn St.....	Valley Freight Office, Tel. M 301.. 265 Woodland Ave.....	E 422 M 1053
20-21 } 22-23 }	6	{ † C. W. Toland..... * A. G. Carpenter.....	1010 Scovill Ave..... 125 Streater Ave.....	729 Society for Savings..... 615 Society for Savings.....	M 1202 M 872
24-25 } 26-27 }	7	{ † W. B. Hopkins..... * Thos. Coughlin.....	47 Jones Ave..... 42 Eben St.....	W. R. U. Law School..... 2548 Broadway.....	M 2373 L
28-29 } 30-34 }	8	{ † M. F. Barrett..... * Michael Riley.....	268 Clinton St..... 241 Washington St.....	Cleveland Bronze & Brass Works N. Y. P. & O. Ore Docks.....	E 759 M 1541
31-32 } 33-41 }	9	{ † D. H. Lucas..... * Wm. M. Bayne.....	106 Scott St..... 4 Franklin Ct.....	..... 69 Frankfort St.....	..... M 1960
35-36 } 40 }	10	{ † Chas. H. Miller..... * Chas. W. Lapp.....	696 Lorain St..... 71 Selden Ave.....	696 Lorain St..... 19 Vincent St.....	W 111 M 2253
37-38 } 39-42 }	11	{ † F. F. Klingman..... * H. McIntyre.....	75 Archwood Ave... 941 Scranton Ave....	501 American Trust Building..... 941 Scranton Ave.....	M 2943 M 2586

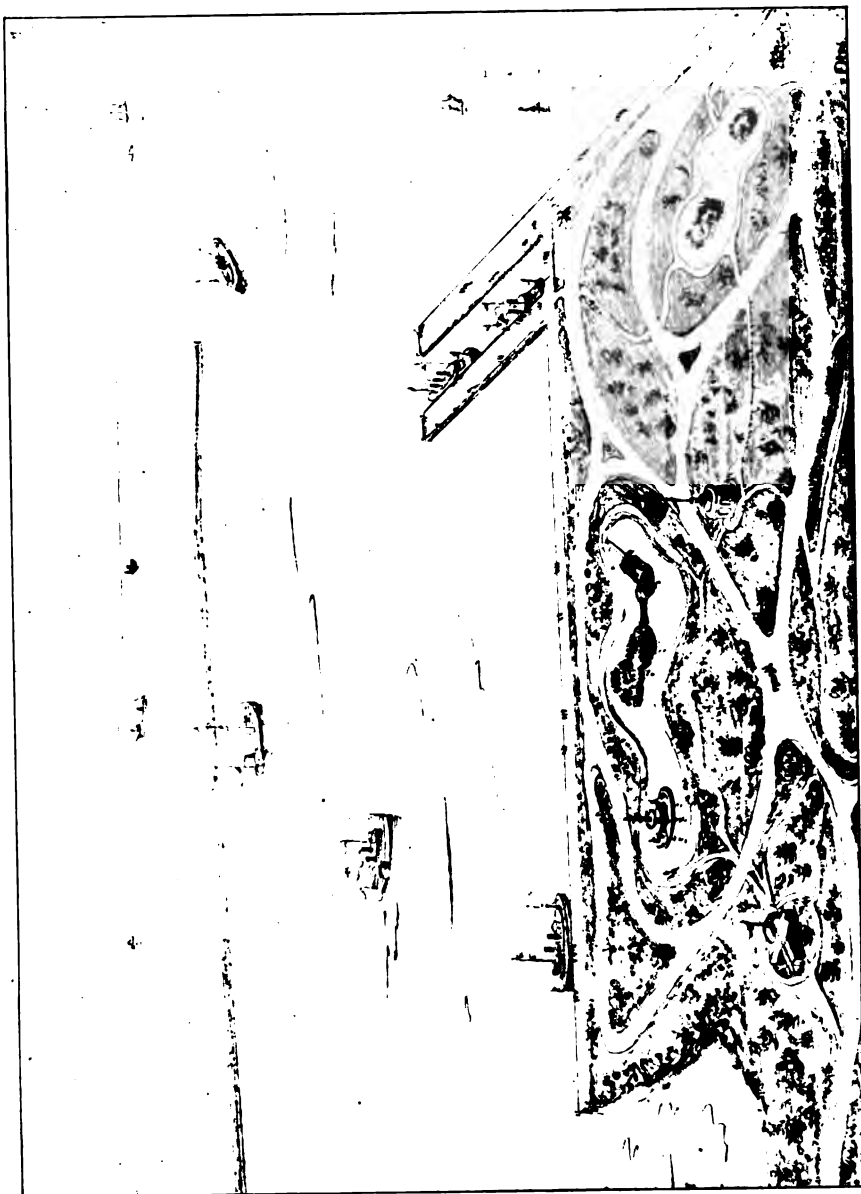
† Term expires April, 1899. * Term expires April, 1900. Republicans in Roman. Democrats in *Italic*.

The Council meets every Monday evening. The Board of Control meets every Monday and Friday at 10 A. M.

STANDING COMMITTEES—CITY COUNCIL.

1898-'99.

Appropriations.....	Cope, Ashmun, Barrett.
Charities and Correction.....	Hopkins, Toland, McKenney.
Claims and Accounts.....	Witzel, Frank Billman, Lapp.
City Property.....	Coughlin, Miller, Carpenter.
City Hall.....	{ G. H. Billman, Carpenter, Lucas, Coughlin, Toland, Riley.
Department Examinations.....	Lapp, Hopkins, Miller.
Finance.....	Ashmun, Cope, Witzel.
Fire.....	Riley, Case, Lucas.
Harbors and Wharves.....	Case, Schnerer, Riley.
Health and Cleanliness.....	Toland, O'Donnell, McIntyre.
Judiciary.....	Carpenter, F. Billman, Hopkins.
Legislation.....	{ Mayor (chairman), City Clerk (secretary), Cor- poration Counsel, Director of Accounts, President of the Council, Ashmun, Bayne, Carpenter, McKenney.
Licenses.....	McIntyre, Klingman, O'Donnell.
Labor.....	McKenney, Schnerer, Lapp.
Lighting.....	Witzel, Lucas, Steuer.
Military.....	Miller, McIntyre, Toland.
Ordinances.....	Bayne, Barrett, Cope.
Police.....	Klingman, Barrett, Cope.
Printing.....	Schnerer, Bayne, Klingman.
Public Works.....	Steuer, Lucas, Witzel.
Public Officers and Offices.....	O'Donnell, Case, Coughlin.
Streets and Railways.....	Barrett, Ashmun, Bayne.
Taxes and Assessments.....	Lucas, Witzel, Steuer.
Telephones and Telegraphs.....	Frank Billman, Steuer, Barrett.



BIRD'S-EYE VIEW OF LAKE FRONT.
Showing a Possible Development of Work Now in Progress.

REPORTS

OF

THE MAYOR, DIRECTORS

AND

CITY OFFICERS.

Mayor's Message.

CLEVELAND, April 14, 1899.

To the Honorable Council:

GENTLEMEN:—In presenting to you my fifth annual message I desire not only to review what has been done by the administration during the past year, but also to make an official record of the results accomplished in advancing the progress and prosperity of our city during the period covered by my two terms of office.

• Before proceeding, however, I wish to publicly express my gratitude to the members of the Board of Control and the Council who have assisted the administration in the conduct of city affairs, and to thank, as well, the worthy citizens who have served on the various commissions in charge of public improvements, and all others who have co-operated through patriotic motives in advancing the best interests of our municipality.

Cleveland is to-day on the threshold of a great and brilliant future; the new century has much in store for her. As her resources are developed and her advantages better realized will she become more truly a metropolitan city, and fulfill more clearly the destiny mapped out for her by her thousands of loyal citizens. It has been the aim of the administration to plan for this future by erecting public works to meet the demands not only of the present but of the Greater Cleveland. Throughout its tenure of office the administration has applied itself diligently to the prosecution of four specific lines of municipal endeavor, namely:

First. To advance the city's financial and business

standing, enhance its credit and increase its prestige among the cities of the nation.

Second. To lower the expense of operating the city departments and at the same time improve the public service.

Third. To start and push as expeditiously and economically as possible great improvements long agitated and demanded by our citizens for the upbuilding and commercial advancement of Cleveland, and while doing this to carry forward a larger amount of ordinary city improvements than ever before.

Fourth. To protect the people and guard their rights at all times from corporate aggressions, whether by street railways or other quasi-public institutions, and to obtain for citizens every privilege to which they are entitled under existing laws and ordinances.

What has been done in pursuance of this course of action it is proposed to recite in this report. In every administration, whether national, state or municipal, the record of deeds done is what endures. I am willing to submit the record of the management of our city's affairs for the past four years to the people and leave it to them to judge whether unprecedented success has not crowned our efforts in each of the lines mentioned.

THE CITY'S FINANCES.

The present financial condition of the city of Cleveland is unsurpassed by that of any other city of its class. With an indebtedness which, compared with the real valuation of property, is less than that of any other city of equal or greater population; with a tax rate which, based upon the real valuation of property, is lower than that of any other city of equal or greater population; with securities selling on a par with those of Boston and other eastern financial centers, and receiving a rate of interest from her depositories greater than the net rate of interest which she is compelled to pay upon loans; with her low operating expenses compared with population and with vast public improvements inaugurated and being carried to completion — the foundations upon which is

to be built the greater city of the future — her status is one of which her citizens may well feel proud.

The total receipts of the city for all purposes in 1898 were \$7,563,190.00, and the total disbursements \$6,628,360.20, and the comfortable sum of \$5,079,777.07 was in the treasury and sinking funds on January 1, 1899, as compared with \$4,144,947.27 for 1897, and \$3,818,907.99 for 1896, and \$3,337,277.58 for 1895, an increase of \$1,742,499.49 during the present administration.

The city of Cleveland has assets at present exceeding its liabilities by the enormous sum of \$30,605,691.97. The excess of assets over liabilities in 1897 was \$28,633,578.60; for 1896 it was \$26,980,147.85; for 1895 it was \$25,207,709.68, the total increase in assets over liabilities for this administration being \$5,397,982.29.

It is a noteworthy fact that the rate of interest received on the city's deposits now exceeds the net rate of interest which the city is required to pay on its bonds, Cleveland being an exception in this regard to all American municipalities. Furthermore, the amount of interest received from the depositories in 1898, together with the premiums on sale of bonds, and the accretions of the Sinking Funds exceeded the net amount of interest paid out by \$92,596.57, the income from interest, premiums and accretions being \$600,730.17, and the interest paid out by the city \$508,133.60.

The following table, prepared by the City Auditor, gives a complete statement of the city's finances at the close of the year 1898:

Cash in treasury and sinking funds, January	
1, 1898.....	\$ 4,144,947 27
RECEIPTS.	
Taxes	\$ 3,055,207 96
Licenses, rents, fees, sales, donations	1,040,243 87
Interest.....	600,730 17
Sale of bonds and notes.....	2,866,490 00
Deposits.....	518 00
Total receipts.....	\$ 7,563,190 00
	<hr/>
	\$11,708,137 27

MAYOR'S MESSAGE.

EXPENDITURES.

Fixed charges.....	\$ 1,857,059 89
Supplies, furniture, fixtures and mfg. material	949,770 56
Perm. improvements.....	2,418,050 08
Redeem bonds and notes.....	1,399,172 00
Return deposits.....	4,307 67
Total disbursements.....	<u>\$ 6,628,360 20</u>
Cash in treasury and sinking funds Jan. 1, 1899,	\$ 5,079,777 07

ASSETS.

Cash	\$ 5,079,777 07
Furniture.....	1,364,861 96
Investments.....	62,338 40
Perm. Improvements	36,557,185 65
Total assets	<u>\$43,064,163 08</u>

LIABILITIES.

Bonds.....	\$11,300,430 00
Notes.....	1,135,380 00
Deposits	22,661 11
Total liabilities.....	<u>\$12,458,471 11</u>
Excess of assets.....	\$30,605,691 97
Net gain in 1898.....	<u>\$ 1,972,591 37</u>

From the above table it will be noticed that the city now has permanent improvements valued at \$36,557,185.65, whereas at the opening of this administration in 1895 the value of permanent improvements as shown in the Auditor's report of that year was \$30,410,381.13, being an increase of \$6,146,804.52. Thus it will be seen that while the city has issued bonds for public improvements, it has received a direct return in the increase of assets. The value of the improvements, however, cannot be estimated in this manner, their real worth being far in excess of any such estimate.

Another item shown by the table is the income of the city for licenses, rents, fees, interest, sales, etc., which increased in 1898 over the previous year alone by \$261,766.02. There has been a steady increase in this regard during each year of the present administration, the total amount received from this source being \$1,640,474.04 in 1898, as compared with

\$1,378,708.02 in 1897, and \$1,275,114.39 in 1896, and \$1,132,737.66 in 1895.

THE CITY'S DEBT.

It has been occasionally asserted by persons not fully informed on the subject that an excessive debt is being piled upon the people by the public improvements now in progress. This assertion is readily proven untrue. The limit of indebtedness which the city may assume is fixed by law and cannot in any case be exceeded. This limit is 7 per cent. of the tax valuation of property. Although a large number of improvements are now in progress the reserve under this limit is amply sufficient to guarantee the city's credit. The indebtedness of the city January 1, 1899, was as follows:

Total City Debt.....	\$12,435,810 00
Deduct (R. S. 2704) Water Works bonds.....	\$2,387,000 00

Sinking Fund, viz.:

In hands of Commissioners.....	\$1,894,275 69
In hands of City Treasurer.....	15,530 58

	\$1,909,806 27	4,296,806 27
--	----------------	--------------

Net City Debt.....	\$8,139,003 73
Tax valuation, \$142,290,775 00—Seven per cent. of same	
(Cleveland Debt Limit R. S. 2704, 92 O. L., 286).....	9,960,354 25

Reserve.....	\$1,821,350 52
--------------	----------------

The net indebtedness of the city, exclusive of \$1,000,000 issued for park purposes (concerning the issuance of which the city authorities had no voice), has been increased \$888,250.81 during the period covered by the present administration, but there has been issued street improvement notes to the value of \$1,135,000, all of which will be paid for at maturity by the proceeds of special assessments levied on property benefited by such improvements. The amount of these notes, the payment of which cannot be regarded as a general obligation upon the city at large, but which, nevertheless, are included in the statement of indebtedness, more than exceeds the amount of increase in the net city debt.

In any statement made regarding additions to the city's indebtedness by reason of the issuance of bonds for public improvements, the fact that the city is paying off its maturing

obligations as they become due should be taken into consideration and proper allowance made therefor. During the time the present administration has been in power, or from April 1, 1895, to January 1, 1899, the city has paid off bonds and notes to the amount of \$4,992,279.98, and has issued for all purposes, including street improvement notes and excluding park bonds, \$5,923,380.

It is also to be remembered that bonds for public improvements are not issued all at once but are disposed of to meet the contracts for the work as it progresses, thus being made to cover a period of years. In comparison with other cities of its class Cleveland's debt is very low, as shown by the following table:

CITY.	Population (Estimated.)	Real Valuation.	Net Debt.	Percentage of Net Debt to real Valuat'n.	Tax Levy Based on Real Valuation.
Baltimore.....	500,000	\$ 458,125,000	\$24,755,529	5.4%	1.94
Boston	550,000	1,036,063,094	52,851,886	5.1%	1.36
Buffalo	400,000	350,963,757	10,280,408	2.9%	1.26
Cincinnati.....	400,000	331,363,000	27,346,500	8.0%	1.30
Cleveland.....	400,000	415,746,290	7,828,403	1.9%	.98
Detroit.....	330,000	276,848,000	3,644,000	1.3%	1.10
Louisville.....	215,000	148,500,000	7,006,000	4.7%	1.48
Milwaukee.....	280,000	294,458,856	6,288,750	2.1%	1.16
New Orleans.....	275,000	198,820,000	15,212,000	7.7%	1.40
Philadelphia	1,500,000	1,152,688,000	39,174,353	3.4%	1.39
Pittsburgh.....	280,000	312,478,721	11,571,679	3.7%	1.50
St. Paul.....	170,000	155,000,000	6,331,725	4.0%	1.28

As will be seen from the above table, compiled by the City Auditor, October 1, 1898, the net indebtedness of the city of Cleveland, when compared with the real valuation of property, is less than that of any other city, with the exception of Detroit, and the tax rate of the city of Cleveland, based upon the real valuation of property, is lower than that of any other city.



PERMANENT CRIB FOR NEW WATER TUNNEL BEING TOWED OUT INTO THE LAKE.
(One of the Temporary Cribbs in Background.)

TAX RATE.

Some misunderstanding, due largely to misstatements, exists in the minds of many people as to the present tax rate. It has been alleged that the administration has increased the tax levy by reason of public improvements. This is wholly false.

The citizens of Cleveland pay taxes for six purposes, namely: For state, county, school, library, park and municipal purposes. The city administration has no control over the tax levy or tax rate for state, county, school, library or park purposes. It is responsible for the city levy and for that alone. *This levy stands to-day the lowest in the city's history.*

The following table shows the tax levy for all purposes from 1881 to 1899 inclusive:

	Municipal Levy per \$1000.	Park Levy per \$1000.	School Levy per \$1000.	Library Levy per \$1000.	County Levy per \$1000.	State Levy per \$1000.	Total Levy per \$1000.
1881	\$15 40	\$0 35	\$4 50	\$0 25	\$2 90	\$2 90	\$26 30
1882	13 65	40	4 50	25	2 90	2 90	24 60
1883	13 80	35	4 50	25	3 00	2 90	24 80
1884	15 25	50	6 00	25	2 90	2 90	27 80
1885	13 70	50	5 95	25	2 30	2 80	25 50
1886	14 00	35	6 00	25	2 50	2 90	26 00
1887	12 90	25	6 00	25	2 50	2 90	24 80
1888	15 90	25	6 20	25	2 80	2 90	28 30
1889	15 95	20	6 20	25	2 80	2 90	28 30
1890	15 125	275	6 20	25	3 30	2 70	27 90
1891	15 125	275	8 10	25	2 80	2 70	29 30
1892	15 20	25	6 70	25	3 45	2 45	28 30
1893	13 15	30	7 20	25	3 85	2 75	27 50
1894	13 00	65	7 20	35	3 95	2 75	27 90
1895	12 90	75	7 20	45	4 05	2 75	28 10
1896	12 93	77	7 40	50	4 15	2 75	28 50
1897	12 70	1 00	8 00	50	4 16	2 84	29 20
1898	12 60	1 00	8 10	50	4 26	2 84	29 30
1899	12 50	1 10	8 40	45	4 26	2 84	29 55

The city levy of \$12.50 per \$1,000 of valuation is made up as follows: General, \$0.87; bridge, \$0.30; street, \$0.86; police, \$1.68; sanitary, \$0.30; fire, \$3.30; dredging, \$0.10; lighting, \$1.60; street intersection, \$0.29; interest, \$0.80; paving, \$0.60; general sinking fund, \$0.40; viaduct sinking fund, \$1.40.

A glance at the above table discloses the fact that the tax rate for state, county and school purposes has been gradually increasing of late years, while under the present administration the tax levy for *city purposes* has been gradually decreased during the same period of time. These facts are not cited as a criticism of the management of the affairs of the state, county, schools, library or parks, but are cited here for the purpose of placing the responsibility for increased taxation where it properly belongs. The present administration has steadily striven to reduce the burdens of taxation; in this it has succeeded in all departments over which it has control, and the credit due it for this result should not be obscured or overlooked by the failure of branches of government, over which it has no control, to secure the same results

OPERATING EXPENSES.

There has been a gratifying reduction in operating expenses of the city during this administration based upon the population. This basis of comparison is certainly a just one, as the amount of work which the different departments are required to perform and the consequent additions to the force in each department and the expenditures entailed are dependent upon the growth and development of the city in population and territory. By operating expenses is meant all expenditures for maintaining the city government in all of its departments, including salaries, rent, supplies, taxes, interest, operating the parks, police court and justice courts, markets, all expenditures for dredging the river, lighting the city, cleaning and repairing sewers and street pavements, all judgments for damages against the city — in fact, all purchases and expenditures of every kind not permanent improvements or for furniture and fixtures.

The following table shows how the operating expenses

MAYOR'S MESSAGE.

XVII

have been kept down, notwithstanding the rapid increase in the demands made upon the city government:

Year.	Operating Expenses.	Population. (Estimated.)	Per Capita.
1893.....	\$2,541,684 28	326,000	\$7 79
1894.....	2,474,243 12	342,000	7 23
1895.....	2,573,370 67	351,000	7 33
1896.....	2,615,412 28	368,000	7 10
1897.....	2,697,893 09	380,000	7 09
1898.....	2,690,430 65	400,000	6 72

PUBLIC IMPROVEMENTS.

In relation to public improvements I believe all citizens will agree in saying that in no period of its existence has so much been done to add to the city's greatness and the comfort of its citizens as has been accomplished during the last four years. Prior to this administration city officials and various commercial and business organizations, as well as citizens generally, had advocated and agitated in public addresses and assemblages that such improvements as those now completed or under construction should be made. The present administration took hold to realize some of these dreams, and points with no small degree of pride to the record of its term in office as the measure of the success attained. Some of these great improvements have been completed, others are at the present time under actual construction, while still others have been recently placed under contract.

The public improvements to which attention has been directed by the administration includes the entire list formerly agitated and may be divided into two classes:

First. Those which contribute to the upbuilding of the city as a commercial and business center.

Second. Those which will add to the health and comfort of citizens and increase the value of Cleveland as a city in which to live.

In the first class may be placed:

The building of piers, docks and landing places on the

lake front, increasing the city's harbor facilities and adding to its standing as a marine and business center.

The opening of the old river bed into the lake, both as a sanitary and commercial measure.

The widening, straightening and deepening of the Cuyahoga River, so as to allow the large passenger and freight vessels now in use upon the lakes to pass in and out with safety.

The building of a new and modern city hall in keeping with the needs of our city and providing for the preservation of valuable records against loss by fire.

The building of the Willson avenue viaduct across the valley at Willson avenue at the Nickel Plate tracks.

The building of the Willow street bridge, connecting Whiskey Island with the main land and furnishing increased facilities for heavy teaming in the busy river district.

The rebuilding of the Center street bridge, removing the center pier from the middle of the river in aid of navigation and affording easier access to the lumber yards on the flats.

The building of the Willett street viaduct connecting the south and west sides of the city with a new highway of travel.

The building of the Martin-Praha street bridge over the railroad tracks at Martin and Praha streets, providing against numerous accidents to school children and pedestrians, as well as furnishing a better passageway for all purposes.

The paving and repaving of business and residence streets and the promotion of all other improvements needed to meet the requirements of the present time.

In the second class may be placed the various improvements for the betterment of sanitary conditions.

The construction of the intercepting sewer along the entire lake front to take up the output of scores of small sewers now emptying into the lake.

The building of a new water tunnel extending five miles out into the lake, and assuring the city of a pure water supply.

The construction of the Walworth Run intercepting sewer, doing away with the disease-breeding channel of Walworth Run and transforming the valley formerly under public condemnation into a well planned street.

The provision of a sanitary system for collection, removal and destruction of garbage, avoiding dumping it into the lake.

The diversion of Giddings brook into Doan brook near the city limits, abolishing a nuisance which has menaced property interests along its course for many years.

The construction of many local and district sewers in all parts of the city to enhance the comfort of citizens and increase the value of their property for residence purposes.

What has been done in advancing each of the improvements named above, as well as their present condition and the work contemplated for the coming year, is described in detail further on.

CITIZENS' COMMISSIONS.

The planning and carrying forward of these public improvements by the administration and the city council has been materially aided by the co-operation of prominent citizens and tax-payers, who have rendered patriotic service to the city in membership upon the various commissions appointed by the Mayor. Two years ago the conduct of the improvements was submitted to a general committee of citizens representing all parts of the city and all classes of our population, and was unanimously endorsed. The city administration went before the people at the last municipal election chiefly upon the issue of continuing these improvements under existing plans and was sustained on that issue, showing the deep interest taken in the improvements and the general satisfaction with their management. At the opening of the year 1898, the improvements were again examined by a non-partisan commission of citizens, who made a most favorable report.

The first commission which had anything to do with the improvements comprised three expert sanitary engineers of national reputation, namely, Mr. Rudolph Herring, of New York City; Mr. Desmond Fitzgerald, of Boston, and Mr. George H. Benzenburg, of Milwaukee, who made a careful examination relative to the systems of sewage, drainage and water supply of the city and presented a valuable report in 1895, upon which later action has been based.

MAYOR'S MESSAGE.

The commissions which have had charge of the improvements and have advanced them through successive stages in co-operation with the city government are as follows:

RIVER AND LAKE FRONT COMMISSION.

Mr. Lea McBride, Judge E. J. Blandin, Hon. M. A. Foran, Col. A. T. Van Tassel, N. A. Gilbert, Esq., Jacob Steinfeld, Mr. Julius Feiss, Mr. C. W. Chase.

SEWERAGE COMMISSION.

Mr. C. F. Brush, Hon. L. E. Holden, Hon. W. J. White, D. F. Reynolds, Jr., H. B. Hannum, W. A. Spilker.

GARBAGE COMMISSION.

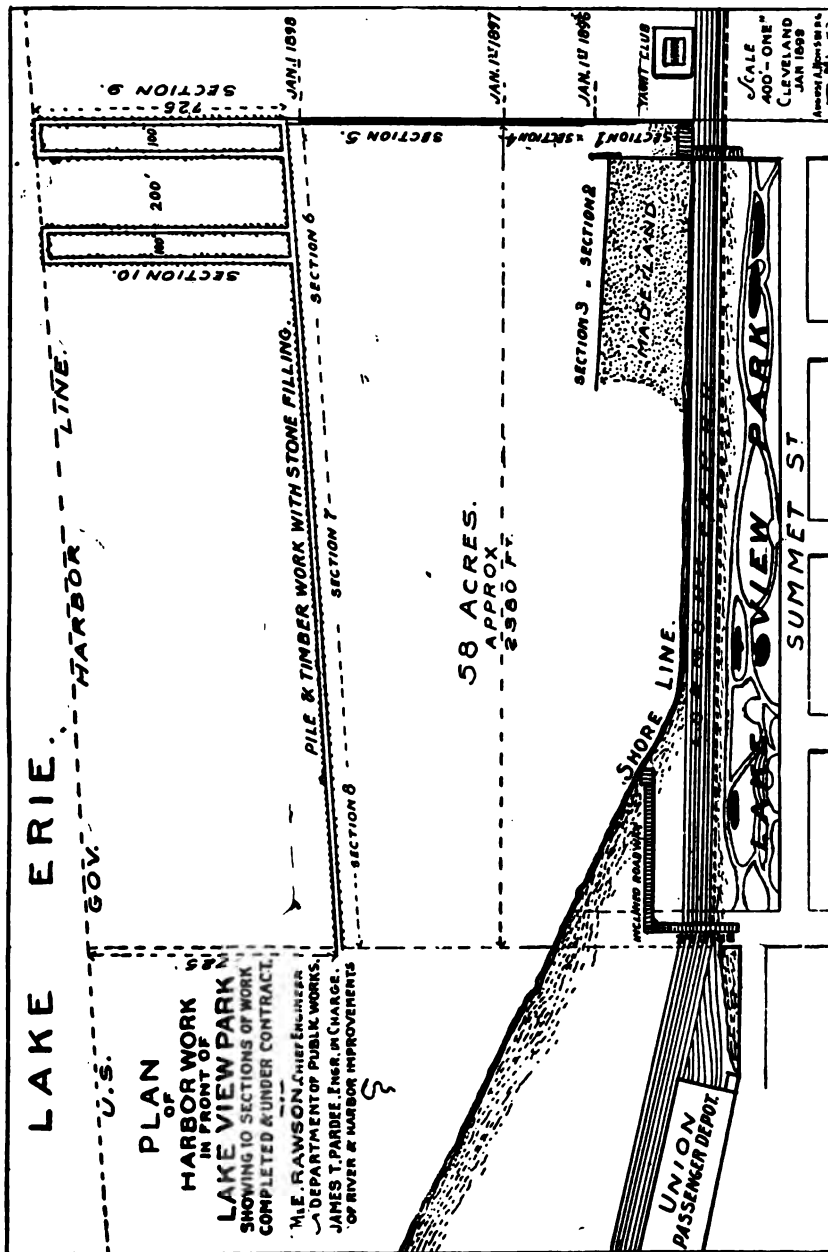
Kaufman Hays, Dr. W. H. Humiston, Mr. J. G. W. Cowles, Henry W. S. Wood, George H. Billman, Esq., Dr. D. B. Steuer, J. W. Conger.

CITY HALL COMMISSION.

T. W. Hill, F. W. Gehring, Stephen C. Gladwin, M. F. Bramley, Nathan I. Dryfoos.

LAKE FRONT IMPROVEMENTS.

Ever since Cleveland was a miniature village there has been a demand for docks and landing places on the lake front. As the city's lake trade has grown and the traffic in and out of the river has become more and more congested, the absolute need of expanding the facilities and affording relief has become more and more apparent. In order to meet the demand of the people and at the same time utilize what is considered the greatest natural advantage possessed by this city, the administration early worked out permanent plans, which were approved by the River and Lake Front Commission and presented to the Council for the elaborate improvement of the eastern portion of water frontage. These plans comprised the extension of a double pier out into the lake for a distance of about 1,300 feet, and the building of another pier at right angles to this and parallel with the shore to the line of Seneca Street, nearly half a mile west of Erie Street, making a large inclosure, to be filled in with dirt and refuse material hauled



View Showing Docks and Landing Piers on Lake Front Partially Completed and Balance Under Contract.

from various parts of the city and dumped at the water's edge, the ultimate design being to some day have land which will be owned by the city, extending from the present shore line northward to the parallel pier. From this parallel pier, according to the plans adopted, docks are to be built extending out into the lake, thus providing facilities for the landing and embarkation of vessels, affording excellent accommodations to the public and relieving the over-crowded river dockage.

A portion of the money obtained from the sale of \$750,000 river and harbor bonds (the amount issued to date) has been devoted to the carrying forward of these improvements. Work was commenced in 1898, and such has been the progress that the whole system of improvements is now well in hand. The pier at the foot of Erie street has been constructed to a point within 60 feet of its proposed terminus, and the remaining portion was recently placed under contract and will be completed early the coming season. Meanwhile a temporary pile and timber protection has been constructed perpendicular to the Erie street pier, a short distance out into the lake and extending westerly to a point 731 feet west of Erie street, being designed to protect the land in process of formation at this point from being washed away and carried out into the harbor. This project is a requirement of the government authorities. It is estimated that not less than 200,000 cubic yards of earth have been deposited within the enclosure thus formed already, adding nearly four acres of valuable property to the city's realty without cost, except for labor in spreading the earth. The entire made land between the future docks and the present shore line will approximate 58 acres and will be available for any use to which the city may decide to apply it.

By far the most important features of this improvement are to receive attention the coming season, when a permanent pier or dock line, parallel with the shore, will be undertaken, and the docks built out into the lake, preparing the way for the landing of passengers from vessels. For convenience the work has been divided into sections and bids have been received for each section separately. All five of the remaining sections are now under contract, the total cost of same being \$170,-

ooo. This includes the cost of the two landing piers which, when built, will leave slips between them 725 feet long and 200 feet wide, thus allowing the largest vessels to lie alongside. The machinery and material have been delivered and work has already been commenced and should be rapidly advanced as soon as the weather will permit. When these contracts are completed, which will probably be during the summer, the advantages of this great improvement will be made available to the public. The outlay of money required for this undertaking will undoubtedly be an investment which will more than pay the city in the immense value of the land thus acquired for dockage purposes, to say nothing about the acreage which can be utilized for a lake front park. The possibilities of such a park may be realized by all who have ever visited Chicago and observed the beauties of Lincoln Park in that city, which is a result of efforts similar to those now being put forth in Cleveland.

There has been a demand from residents in the eastern portion of the city for a dock at Willson avenue. Being in accord with this movement the administration has undertaken the necessary legislation in the Council and a resolution was recently adopted authorizing the Director of Public Works to proceed with the advertisement for this improvement, which will undoubtedly be a great convenience and also add materially to the harbor facilities of the city.

LAKE FRONT CASES.

It has long been recognized as vitally important that the city's rights upon a portion of the lake front, between Water street and the mouth of the Cuyahoga River, which has been in dispute between the railroads and the municipality, should be determined.

In 1897, the Mayor adopted a new plan of battle for the city's rights and undertook to press the same to a decisive issue. He accordingly appointed, under authority of the council, a special commission, consisting of Judge George L. Phillips and Hon. James Lawrence, men eminently qualified to represent the city in this important contest. These attorneys in co-operation with the law department have been vigorously fulfilling the duties assigned them.

The land in controversy lies east of the Cuyahoga River near the Union depot and contains about fifty acres, and is now occupied by freight houses, tracks and other railroad property. Its value is variously estimated, but always in the millions. Before taking the case up in court, the city's counsel, in the spirit of fairness, invited the attorneys for the railroads involved, namely, the Pennsylvania Railroad Company, the Lake Shore & Michigan Southern Railroad Company, the C. C. C. & St. L. Railroad Company, and the Cleveland & Pittsburg Railroad Company, to a conference to see if an amicable adjustment could be made. The result of this conference was unsatisfactory. A few days prior to the day set for the hearing in the Common Pleas Court, the Pennsylvania Company filed a petition in the United States Court for the removal of the case to that tribunal. Although the city vigorously protested and resisted this action step by step, nevertheless the request was granted. A vast amount of material was collected in the city's behalf for the trial, which was called in the United States Court on January 12, 1899. Whatever the outcome of this trial, it is intended to resist the encroachments of the railroad corporations to the finish. It is difficult to predict the length of time that will be required to obtain a final decision and thus forever establish the rightful ownership of the Lake front. The solution of this important problem is now nearing completion, however, a fact which gives the present administration much satisfaction.

RIVER WIDENING.

So great has been the increase in lake commerce of late years and the consequent demands made upon the inner harbor that its crowded condition has resulted in much delay to traffic and frequent accidents to shipping craft. This condition of affairs has, however, been obviated by improvements made in the river by the present administration. With the aid of legislative appropriations the city has been enabled to practically remodel the river channel, and has placed Cleveland more nearly on a par with its maritime competitors.

The administration, in accordance with the plans regularly adopted by the River and Lake Front Commission and approved by the Council, has proceeded to improve the chan-

nel section by section, beginning at the river's mouth. It was early decided that it would be best to provide one large, adequate outlet to the river rather than continuing the two small ones, this portion of the harbor being thronged and wholly overtaxed during the season of navigation by large ore and lumber vessels passing in and out on their way to the old river docks and others on their way to the lumber and ore docks farther up, and by many passenger and merchant vessels and pleasure boats going to and fro on their daily trips. The improvements at this point in the river, while under control of the government, were nevertheless brought about by the willingness of the city to purchase the necessary land and turn it over to the federal authorities. Owing to the fact that the title to much of the land was involved in long standing dispute, a great deal of time was required to carry out the project, but during the summer of 1898 the formal transfer of the land was made and the improvements were started under direction of the government engineer, thus making the river at its mouth twice as wide as it was heretofore. The commencement of work was signalized by a public demonstration, in which the officials of the city, representatives of the government and the citizens generally took part.

An important improvement has been made near the mouth of the river by the N. Y. P. & O. Ry. Co. The city purchased from this company land to the value of \$30,000 for the Willow street bridge. The company, through efforts of the administration, then widened the Old River bed near the bridge and set back its docks, enabling large vessels to pass the length of the Old River bed and greatly increasing the wharfage facilities.

Extensive improvements in the Old River bed are also being made by the L. S. & M. S. R. R. Co., under an agreement with the city, whereby the company is permitted to build a steel bridge and permanently maintain it instead of building a swing bridge as originally provided in an old ordinance passed by the Council. An opening has been made for this bridge over the channel to the lake. The bridge is 100 feet long, spanning a 60-foot channel for boats, and making a 40-foot passageway for public travel, both of which are donated to the city. Furthermore, the company is constructing a

winding place for vessels 350 feet long and 150 feet wide, at its own expense, which has also been given to the city. The settlement of the controversy in regard to opening the old river bed into the lake by having a swing bridge near the lake nets the city \$377,000 together with these improvements, and we believe the citizens quite generally approve the plan to have one wide and adequate mouth to the Cuyahoga River instead of two shallow and inadequate mouths. In addition to this the United States government has already built one new dock on the east side of the mouth of the river and will build a new dock on the west line, and will remove its harbor line, reaching some 450 feet farther up the river, thus saving the city over \$2,000.00 annually for dredging.

During the summer of 1897 the work of removing old docks and dredging the channel between Main street bridge and the Superior street viaduct was undertaken and completed, making the channel 86 feet wider for a distance of 400 feet and an average of 60 feet wider for a distance of 480 feet. This means an average width of channel of 276 feet for the entire distance in comparison with 180 feet in the narrowest place as formerly. This section of the river has been provided with new and improved docks and is now of sufficient width to allow several of the largest vessels to pass to and fro at one time in safety, thus relieving a portion of the channel which has been under public condemnation for many years owing to its narrowness and the consequent annoyance to traffic.

In the upper river new docks have been built and the river widened and dredged between Seneca and Mahoning streets, making it an average of 142 feet instead of an average of 100 feet. The channel was also projected last year to a point farther up than ever before, enabling vessels to reach the docks of the various provision companies, an accomplishment appreciated by all concerned. The entire channel of the river from its mouth to the Jefferson bridge on the south was dredged a foot deeper and from 30 per cent. to 50 per cent. wider in 1897 than ever before, greatly increasing its utility for the passage of vessels.

The work for next season comprises the completion of the widening of the river from Center street bridge to the old

river bed, practically all the land for which is now acquired and plans for which have been made and bids advertised; the construction of a support for the south abutment of the Main street bridge, the contract for which has been let; the straightening of Collision Bend; the straightening of the channel at Jefferson street, and other minor improvements in the upper channel. With these accomplished no further improvements in the Cuyahoga River will probably be needed for many decades to come.

INTERCEPTING SEWER.

Although a great deal has been said about the construction of the great intercepting sewer along the lake front, it is possible that the utility of this improvement may not be fully understood by some. The expert sanitary engineers employed by the city in 1895, after a careful investigation of the city, its surrounding needs and existing conditions, advised that ordinary sewage be collected from the mains and instead of being allowed to pour into the lake from numerous outlets should be carried in a large intercepting sewer along or near the lake to a distant outfall east of the city. It was recommended by these engineers that such outfall should be located about ten miles from the proposed new water in-take. The sewage when thus removed and all floating matter screened out to be discharged through submerged pipes into the lake not less than one-half mile from the shore. This plan contemplates taking up all sewage from main sewers, either constructed or hereafter to be constructed, except from the low-lying sections along the river valley, and conveying the same by gravity to the distant outfall. The sewage from the low territory is eventually to be gathered up, raised by pumps into the intercepting sewer and disposed of by gravity.

WHAT HAS BEEN DONE.

It was deemed best to begin work first on that portion of the intercepting sewer west of Gordon avenue in order to give immediate relief to the portion of the city known as West Cleveland. A storm overflow sewer has been built from Gordon avenue to Waverly avenue with an outlet at Waverly avenue; the right-of-way has been obtained from the L. S.

& M. S. R. R. Co., and a section of the sewer from Gordon avenue to Alger street was completed in the summer of 1898; the right-of-way for the section from Alger street to Lake avenue had previously been obtained and this section finished in 1897. The work upon the Lake avenue section of the interceptor from the L. S. & M. S. R. R. Co. to Lower street was begun last season and the sewer is now half done. Work on the sub-main sewer in Desmond street, from Lake avenue to the boulevard, was also advanced last season and is now three-fourths done. In addition to these greater aqueducts, a sub-main sewer has been laid in Lake avenue, from the L. S. & M. S. R. R. Co. to Detroit street, as well as a sub-main in Watterson street, from Detroit street to West Madison avenue, and in Elliott street, from Lake avenue to Detroit street, and in Gordon avenue, from L. S. & M. S. R. R. to Bridge street. Work will be resumed in the spring on a sub-main sewer in Malcolm street, from West Madison avenue to Detroit street, and on the boulevard sewer, from Desmond street to Detroit street, as well as on other large tributary sewers, giving ample drainage facilities to District No. 13, or what was formerly the village of West Cleveland.

WORK LAID OUT.

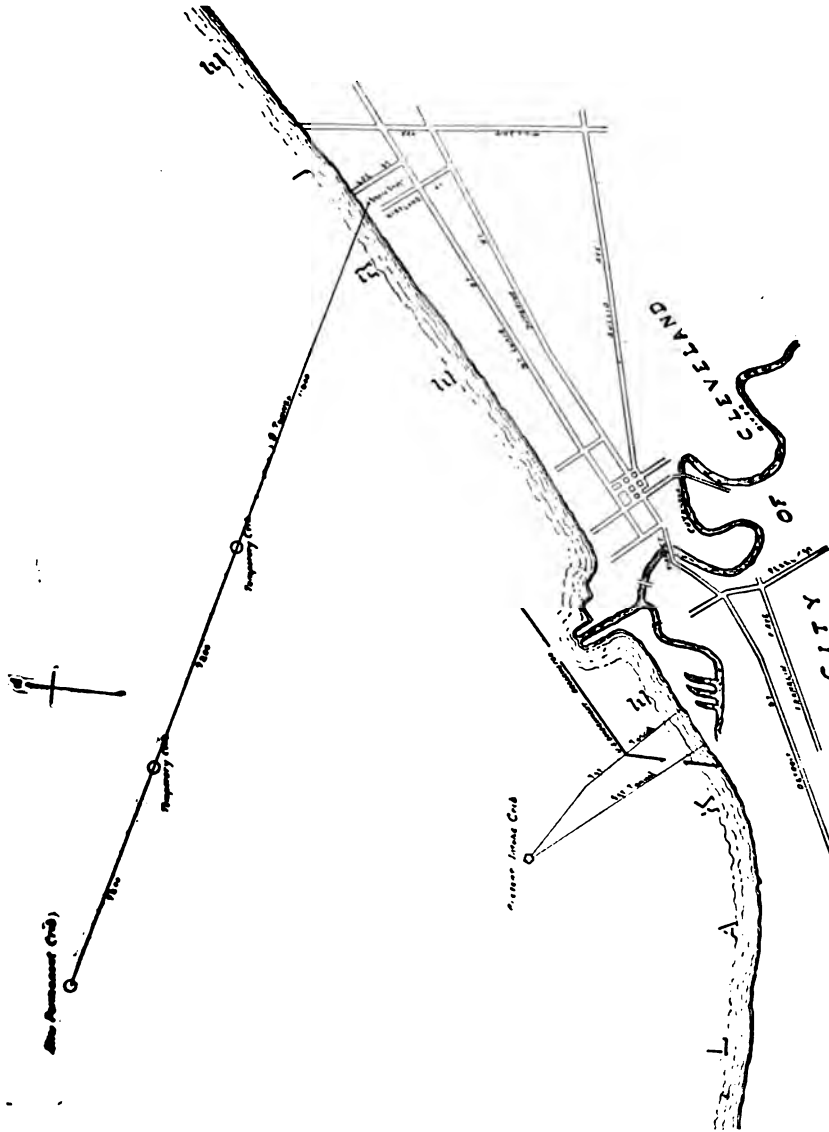
It is planned the coming season to commence to build a portion of the interceptor east of the river, between Muirson and Water streets; this portion of the business section of the city has long been in need of relief, nearly all of the downtown sewers being wholly inadequate to the demands made upon them. It is also planned this season to build the interceptor from the city terminal point to Doan street, an ordinance to obtain the right-of-way from the L. S. & M. S. R. R. has been introduced; to construct a lateral main interceptor from Doan street to St. Clair street, giving permanent relief to the entire eastern and southern sections of the city, and to construct the terminal facilities ten miles east of the city, land for which has been secured as recommended by the expert sanitary commission. An ordinance has been passed by the Council designating the streets to be occupied by the eastern portion of the intercepting sewer in the villages of Collinwood and Glenville, under authority of an act of the

General Assembly, passed April 26, 1898. In pursuance of this ordinance joint commissions were appointed by the Mayors of Collinwood and Cleveland, respectively, to consider the question, and have agreed after several meetings upon the conditions under which the city may occupy the necessary streets in the village of Collinwood, and this has been approved by the court. The commissioners for the city and Glenville are also engaged in negotiations for the construction of a portion of the Doan street sewer in said village, and it is expected that at an early date satisfactory conclusions will be reached. The engineering department of the city is engaged in making the preliminary surveys in anticipation of the construction of this section of the sewer, and test borings are being made to determine the quality of the material at the terminal works of the interceptor, the plan being to commence work on both of these sewers at the opening of the coming season.

WALWORTH SEWER.

Within a short time the great Walworth sewer, an improvement agitated in the southern and western portions of the city for nearly thirty years, will be completed. This sewer is a constituent part of the intercepting sewer recommended by the commission of expert engineers and by the various citizens' commissions, which have considered the subject of city sanitation. Owing to the vast territory to be drained by this sewer it has been constructed on an extensive scale, being one of the largest in the country. The sewer will have an interior diameter of 16 feet 9 inches at its lower end, and 8 feet at its upper end. It will be circular in form upon its interior surface with a vitrified shale brick lining throughout. The sewer will extend along the valley of Walworth Run about 13,400 feet to the head of the valley at Gordon avenue.

For convenience, the work of building this sewer was divided into sections. The first section, extending from Gordon avenue to a point midway between Junction and Burton streets, is completed and has cost about \$112,000, considerably below the estimate. About three-fourths of the second section, extending from Burton street to Mill street, has been



THE NEW WATER TUNNEL.
 Extending Five Miles into the Lake from the Foot of Kirtland Street (Old Tunnel also Shown.)

completed at a cost of about \$176,000. The third section of this sewer, extending from Mill street to a point near the intersection of Walworth street and Scranton avenue, is under contract. Bids for the construction of the fourth and last section of this sewer, extending from Walworth street to the Cuyahoga river, will be asked for soon. It is now quite certain that the cost of this great sewer will be fully \$160,000 below the estimate, which fact should be pleasing to the tax-payers of this district and to the city at large.

WATER WORKS TUNNEL.

Heretofore the city of Cleveland has depended for its water supply upon a wooden crib located one mile from shore and subjected to storm disturbances which often occur. The impurities of the Cuyahoga river, contaminated with local sewage, have deteriorated the water supply, so that for the past ten years the agitation for better and purer water has been continuous.

In order to better the existing conditions the administration has been engaged during the last three years in the construction of a new water tunnel extending from the foot of Kirtland street in a northwesterly direction five miles into the lake, and where, according to the judgment of expert engineers, a clear, pure supply of water is obtainable.

Authority was granted by the Legislature in 1896 to build this tunnel and work was commenced on October 10th of that year and the tunnel has been advanced as rapidly as possible since then. It has been interrupted on two occasions, however, by distressing accidents caused by the explosion of gas and causing the death of a number of the workmen. These accidents are deeply regretted by the administration, although the evidence shows that they probably could not have been avoided and were incident to the work, which is very dangerous to those employed.

In order to facilitate the construction of the tunnel a temporary wooden crib filled with stone was sunk in the lake on May 27, 1897, at a distance of 11,600 feet from the shore and a similar crib also located 7,200 feet farther out on Sept. 7, 1897. The tunnel had reached a distance of 12,686 feet on

January 1, 1899. It is expected that it will be completed in a year or at the most a year and a half. The tunnel is nine feet in diameter and work therein is conducted under air pressure. The contract for the steel inlet crib which is to form the terminal facilities of the tunnel, was let in December, 1896, and the crib is now nearing completion. It may be of interest to state that the base upon which the steel work rests contains one-half million feet of timber, thoroughly bolted together, to which is fastened the steel superstructure containing 1,500 tons, and after the same was sunk in its position there was placed around it 8,108 tons of riprap and the interior was filled with 1,200 yards of concrete and 15,000 tons of filling-in stone. The stability of the structure is assured. The strongest storms do not cause it to shake and according to the opinions expressed by the engineers the crib will stand forever without repair.

A large amount of stone was also deposited around the temporary cribs to anchor them in place, the amount thus used at Crib No. 1 being 8,725 tons, and that at Crib No. 2 being 9,184 tons.

The Director of Public Works was recently authorized by the Council to advertise for the construction of the Kirtland street pumping station and the terminal tunnel facilities.

GARBAGE DISPOSAL.

A problem which many American cities are endeavoring to solve is that of properly collecting and disposing of their refuse and garbage. It has been the custom among householders in this city in former years to dispose of garbage by burying it in back lots, burning it in furnaces and cook stoves, or having it collected by private arrangement with scavengers. Although the city had grown to metropolitan proportions, nothing was ever done prior to this administration to provide a garbage system. Such garbage as has been collected in a public manner has been formerly dumped into the lake, thus adding to the pollution of the water supply. It has been one of the aims of the present administration to provide for citizens a system of garbage collection and disposal which will meet the requirements of this rapidly growing city. The

consideration of the matter has been in the hands of a committee of citizens consisting of Mr. J. G. W. Cowles, Mr. J. W. Conger, Dr. W. H. Humiston, Mr. Kaufman Hays, Mr. Henry W. S. Wood, and Councilmen Steuer and George Billman.

In pursuance of their duties, this committee, as constituted, made a tour of inspection to other cities early in 1897, and presented an exhaustive report on its observations. The city was authorized by the legislature to issue bonds to the amount of \$100,000 for the establishment of a garbage system, and bids were three times received. On the first and second occasions all bids were rejected, but on the third it was decided that the bid of The Buckeye Refuse and Destruction Company was as near satisfactory as could be obtained, and this company was awarded a five year's contract with the city. Although the majority of the commission were in favor of this course some members, namely, Mr. Cowles and the Mayor, were not entirely satisfied to permit the letting under the last bid. It was largely through their efforts that the city retained the option of owning the plant at the expiration of the contract in 1903.

The company made preparations for the fulfillment of the contract in the summer of 1898. A garbage works was fitted up in Independence Township and plans made for transporting the garbage thereto in railroad cars specially constructed for this purpose. Special garbage wagons were obtained and in August the collection, removal and disposition of garbage under the contract was begun. Considerable dissatisfaction was manifested over the irregularity and lack of collections, but the company as well as the city authorities have put forth every effort to remedy the difficulties. The number of complaints received by the city against the garbage company have gradually decreased until the number is comparatively small, averaging not more than five per day.

No money was paid to the company during 1898, the city refusing to settle for bills rendered owing to the failure of the company to comply, in its judgment, with the terms of the contract. After several meetings, the Garbage Commission decided to oppose full payment for the work done to date and decided that it would give its consent to the payment only of

such proportion of the bills as would comply with the actual amount of work done. It is only fair to say that the failure to obtain the desired results were undoubtedly not only due to shortcomings of the company, but also to the fact that many citizens did not comply with the city ordinances requiring the provision of proper garbage receptacles and the placing of these in accessible locations.

NEW CITY HALL.

After many years of waiting and almost despairing, means have at last been provided, through the efforts of the present administration, for the erection of a new and modern City Hall. This subject was first considered by the administration early in its career when a vote of the people was taken to erect a City Hall on the Public Square. The project, however, fell through owing to injunction suits and the repeal of all legislation on the subject. A committee of well known citizens was appointed to again take up the plans, and on February 28, this committee unanimously adopted a report setting forth that the present rented quarters were wholly inadequate to meet the demands of to-day, and that the safe condition of the public records demanded that immediate steps be taken to secure them against loss by fire or other cause. It was also shown in this report that the city had paid out for rents, taxes and repairs, from 1874 to the present time, over \$1,050,000, and the committee was unanimous in the belief that it would be a good business move for the city to own its City Hall rather than to continue renting. With the assistance of the committee a bill was drafted, and after considerable effort it was passed at the last session of the General Assembly, authorizing the city to issue bonds in the sum of \$1,500,000 for a new City Hall, and also providing for the appointment of a non-partisan commission which should have control of the plans. The citizens chosen to serve on this commission and approved by the Council are: Messrs. T. W. Hill, N. I. Dryfoos, F. W. Gehring, M. F. Bramley and S. C. Gladwin.

The commission has undertaken its work, having communicated with other cities and collected a considerable

amount of material for use in determining the kind of a building that should be erected.

An ordinance has been drafted and presented to the Council providing for the issuance of bonds to be used for the purchase of a site. It is expected that a suitable location will be chosen and that work upon the new structure will be commenced during the coming season. The commission favors the provision of a City Hall building in every way commensurate with the needs of our great and growing city, and one that will be in harmony with other public buildings now contemplated and which will compare favorably with any building of its character in the country for the amount to be expended.

DIVERSION OF GIDDINGS BROOK.

One of the most troublesome problems with which the present administration has had to deal has been the affording of relief to the residents and business territory contiguous to Giddings Brook. Every spring and fall this stream has overflowed its banks, flooding the neighboring cellars and highways and menacing the public health in that section of the city, as well as doing great damage to property. Various plans for doing away with this difficulty have been considered, with the result that the engineering department has decided that the brook should be diverted into Doan Brook. In order to provide for the necessary funds, a bill was drafted and presented in the Legislature and passed at the last session authorizing a bond issue of \$50,000 for this purpose. These bonds were offered for sale on January 9th of this year, the highest price being offered for them that was ever received by the city. Advertisements will be placed for bids in the near future, and the work on this improvement should be pushed as rapidly as possible the coming season. According to the plans adopted by the Council the tunnel or conduit for the diversion of this brook will be completed through Baldwin street, and a portion of the park lands to Doan Brook, the cost of the work being roughly estimated at \$50,000, though it may be less.

WILLSON AVENUE VIADUCT.

A noteworthy achievement of the present administration was the building of the Willson Avenue Viaduct across the gully formerly traversed by a surface roadway, encountering a network of dangerous railroad tracks. By enforcing the terms of an old agreement with the Nickel Plate Railroad Company, and by skillful negotiations with The Cleveland Electric Railway Company, funds for this viaduct were obtained almost sufficient to meet the entire expense. This viaduct, a steel and iron structure 1,100 feet long extending in Willson avenue, from Francis to Julia street, was formally opened to public travel on June 3, 1898.

A disaster befell this magnificent structure on January 18, 1899, when the abutments near the center of the bridge were carried away by a flood, caused by the breaking of Herron's Pond. Every effort was made by the city authorities to avoid this catastrophe, but without success, a portion of the bridge going down with the abutments. Steps to have a temporary bridge erected and to have the N. Y., C. & St. L. R. R. Co. permanently repair the broken structure were immediately taken.

WILLETT STREET VIADUCT.

No improvement being made by the administration is more thoroughly appreciated by residents of the southern and western parts of the city than the construction of the Willett street viaduct. The provision of this bridge has been agitated for many years as a means of easy access between these well populated portions of the city. At present the only crossing is at Swiss and Burton streets, and school children are compelled to traverse a network of railroad tracks much to their danger. Numerous obstacles have been overcome in carrying out the plans of the administration, but the bridge is now well under construction to the satisfaction of the thousands of residents in that locality who will be directly benefited.

WILLOW STREET BRIDGE.

Another important accomplishment by the present administration in bridge building was the erection of a new steel

structure at Willow street, across the old river bed, a short distance from its opening into the Cuyahoga river and connecting what is known as Whisky Island with the main land. The new bridge replaces a temporary wooden structure built in 1889 and intended at that time for only a few year's use. The old bridge rested on a center pier near the middle of the channel and was only 6½ feet above the surface of the water. The new bridge rests on a pier located on the northerly side of the channel, leaving a clear opening of 138 feet for the passage of vessels as against 70 feet as formerly. It has a swing span of 295 feet and is operated by two 35-horse-power motors. Its cost was \$67,000, with \$26,100 added for the purchase of land.

MARTIN-PRAHA STREET BRIDGE.

At the request of many residents in the South End whose children were forced to cross and re-cross dangerous railroad tracks on their way to and from school, the administration has undertaken the erection of a bridge across the valley between Martin and Praha streets. Some difficulty had to be overcome in this connection owing to the fact that according to law 21 feet should be in the clear over the Erie railroad tracks, while the natural embankment is but a few feet high. In order to avoid the construction of a retaining wall of considerable height in front of houses on Martin street, the city decided to straighten the line of the two streets and run the new bridge abutments along the rear line of the lots. This has been accomplished and the bridge is now under construction and will be completed early in the summer. Its cost will be approximately \$20,000, exclusive of damages sustained for property needed for the abutments.

In connection with the building of this bridge the right-of-way for a new depot at the junction of the N. Y. P. & O. R'y and Willson avenue was given, and this depot, of great convenience to the people, is now in use.

CENTER STREET BRIDGE.

In compliance with recommendations of various marine authorities the present administration early adopted the policy in river bridge building of removing center piers from the

channel and constructing all new bridges with side piers, thus clearing the channel of obstructions and guarding against accidents.

This plan is being followed in the construction of the new Center street bridge, work on the foundations of which is now in progress. This bridge will be of the long and short arm variety and when swung will leave a channel 114 feet in the clear, instead of 60 feet as formerly. The contract for the superstructure of this bridge will soon be let. When completed it will not only be a great improvement to the business interests affected, but it will do away with a great deal of complaint among vesselmen who have long protested against the old structure.

COLUMBUS STREET BRIDGE.

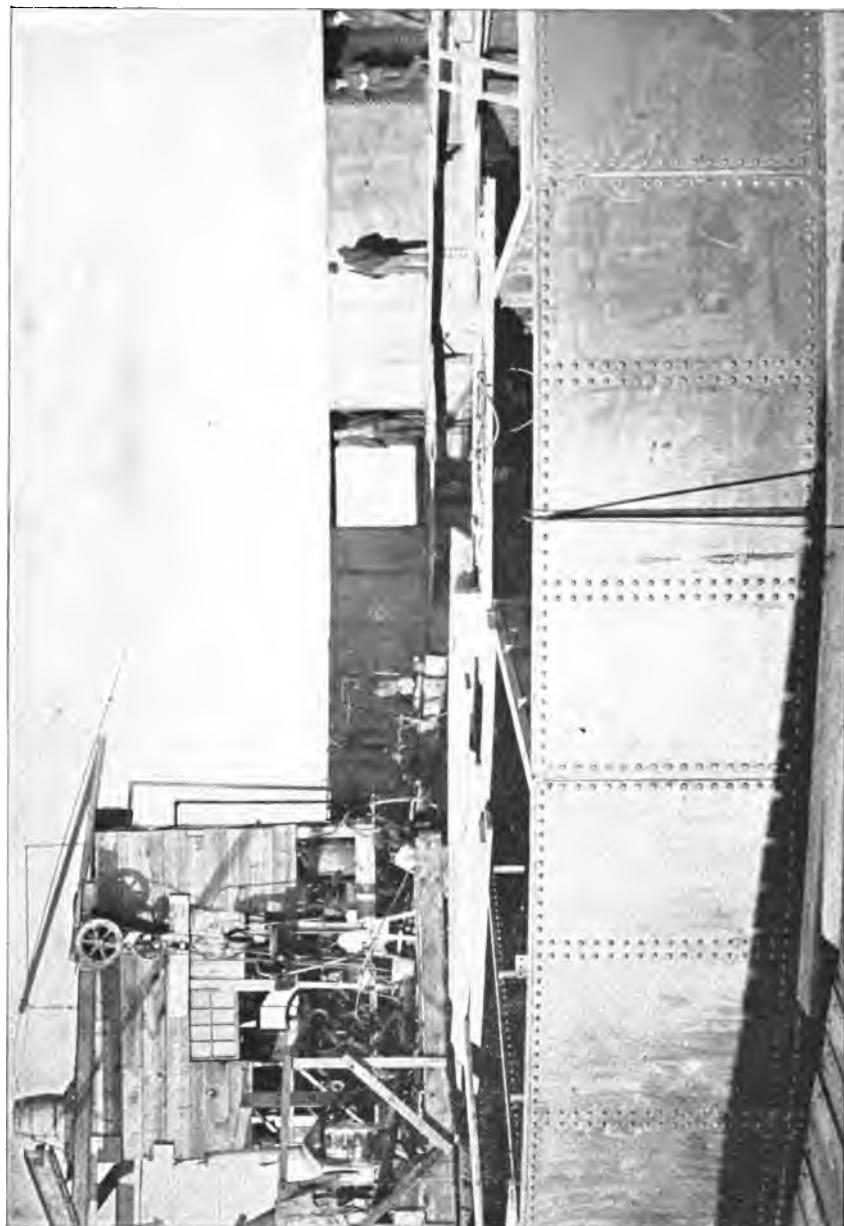
Plans for a new bridge over the Big Four railway tracks, at the junction of Columbus and Leonard streets, have been adopted, the Railway Company meeting the expense. At the city's request the center pier will be removed from the river, the company having determined upon the construction of a modern form of lift bridge, giving 110 feet clearance for vessels instead of 50 feet as formerly. This company is also about to complete a modern bridge at the central flats, near the Cincinnati slip.

SENECA STREET BRIDGE.

A substantial wooden bridge of the Howe Truss variety was constructed across the railroad tracks at Seneca street, east of the Union Depot in 1896. The bridge consists of a single span of 160 feet and connects an inclined roadway to the east about 400 feet long with a dumping platform at the water's edge. This bridge has given convenient access to the lake at this point and has been in almost constant use by teams and wagons carrying dirt from excavations to the dumping ground in front of Lake View Park. The cost of the bridge was about \$8,000.

WARNER ROAD CULVERT.

A much needed improvement and one greatly desired is now in progress in Warner road, near the Cleveland State



BUILDING THE PERMANENT STEEL CRIB FOR NEW WATER WORKS TUNNEL.

Hospital. From Warner road to Broadway a big fill is being made. Where the fill crosses Mill Creek a 40-foot stone arch culvert is being constructed. Through the length of the fill the sewage is carried from Warner road emptying into Broadway and being carried over the ditch to the stone culvert. At the point of junction of Warner road and Broadway, there is a grade of several feet which is being reduced to an easy ascent. The embankment is now completed and the culvert finished. The other work connected with the improvement will be completed in the spring. By making these alterations at the points named needed relief is afforded to the local sewers, and both the sanitary and business conditions are benefited.

PUBLIC FRANCHISES.

The most powerful influence for evil against which any city administration, pledged to protect the rights of the people, has to contend, is that of street railway and other corporations constantly seeking self-aggrandizement at the public expense. The present administration has throughout its course steadfastly upheld the principle that the citizens themselves should govern their municipality and not permit it to be controlled and manipulated by corporations. It has openly contended against the schemes of paid lobbyists to obtain valuable franchises with no regard to the public welfare, and has met with signal success in checking franchise peddling in Cleveland.

Prior to this administration over one hundred franchises of inestimable worth were given away by Councils and Mayors with no return to the city.

In striking contrast to this policy has been that of the present administration, whose vigorous hostility to the plan formerly adhered to has caused it to be regarded as "anti-corporation" throughout.

The record is of two kinds, comprising the overthrow of attempts to wrest franchises from the people on the one hand and concessions gained from the companies for privileges extended on the other.

ORDINANCES VETOED.

In 1895 occurred a contest over the passage of an ordinance permitting the Cleveland Electric Railway Company to extend its road in Broadway, resulting in the passage of the ordinance by the Council. It was promptly vetoed by the mayor on the ground that it failed to provide proper returns for the grant. This was followed by another ordinance granting a franchise to the same company to extend its railway in Burton street. This was also passed and was also vetoed. A second attempt was made to pass a like ordinance, being successful in the Council but unsuccessful in obtaining the executive signature.

REPEAL OF FIFTY YEAR FRANCHISE LAW.

Had there been an administration friendly to the street railways then in power, there is no doubt that the city would now be tied up with a fifty-year franchise, or at least one for twenty-five years, both of these having been possible within the period covered by the present administration. The interests of the city were jeopardized by the passage of the infamous fifty-year franchise law by the Legislature at Columbus. The hearty support of the administration was given to the repeal of this law at the last session of the Legislature, and it was done with unanimity, to the great satisfaction of the residents of Cleveland whose interests were affected.

LOWER FARES.

During the year 1897 the administration engaged in what was the most remarkable campaign ever waged in this city for lower street car fares. In August of that year an ordinance was introduced in the Council to lower the rate of fare on the Woodland avenue line to 4-cent cash fare or 7 tickets for 25 cents. Great public interest was manifested in the progress of the measure, but the ordinance was lost by a tie vote, the companies refusing to grant any concessions to the city except on the basis of a new franchise covering all lines for twenty-five years from date.

Taking up the fight again in November, 1897, a second low fare ordinance was introduced in the Council relating to

the Euclid avenue and Cedar avenue lines, but the street railroad succeeded in having this ordinance sidetracked and it also failed of passage.

The administration was then confronted with the iniquitous Reynolds ordinance, which provided for the granting of a twenty-five year franchise covering all lines of the city. The companies made every effort to force this measure through the Council but were sternly opposed by the administration and low fare advocates in that body, as well as by the masses of the people, and the ordinance was finally suppressed and nothing has been heard of it or any similar measure since.

The administration directed its best efforts to the passage of the ordinances for lower fares introduced in the Council last September, covering the Kinsman street branch of the Cleveland City Railway Company and the Wade Park, Cedar avenue and Central avenue branches of the Cleveland Electric Railway Company. These ordinances, as amended by the Board of Control, provided for 4-cent cash fares and the sale of 7 tickets for 25 cents. They were passed by an almost unanimous vote of the Council, the street railways being thus made to realize that their former grip upon the legislative body of our city had at last been broken. The companies have, however, temporarily deprived the people of the benefits of these ordinances by recourse to the federal courts, where an injunction against their enforcement has been obtained. The city law department is busily engaged in preparations for fighting the cases and hopes to win a complete victory in the end.

CONCESSIONS OBTAINED.

Some of the more important concessions which the present administration has obtained from the street railway companies are as follows:

The free gift to the city of a deed of land valued at \$57,000 by the Cleveland Electric Railway Company for the privilege of crossing Deering street, Stearns street, and Fairchild street with their tracks.

The payment of \$10,000 by the Cleveland Electric Railway Company for the privilege of crossing the Willson avenue viaduct.

The payment of \$9,300 by the Cleveland Electric Railway Company for the privilege of laying a double track 900 feet to the city limits on its Euclid avenue line.

The equipment of all motor cars according to state law with vestibules for the protection of motormen and gripmen.

The forcing of the Cleveland Electric Railway Company to run all of its cars around the down town loops instead of running many of them up Ontario street, to the satisfaction of business men and patrons of the line in general.

The appointment of a city board of equalization in sympathy with the policies of the administration, which has raised the tax valuation of the street railway companies' tracks to almost three times their former valuation, namely, from \$4,600 per mile for double track (the returns made by the companies) to \$12,500 per mile for double track.

The administration submits that it has faithfully kept the pledges made by it to the people at the outset of its career. The record of the past is the best guarantee for the future. It has constantly fought against corporate aggressions and will continue to maintain this attitude as long as it is in power.

It has stood committed against the extension of present franchises until the date of their expiration.

It has stood committed against the granting of any further franchise rights in any street of this city without an adequate return to the municipality.

It has stood pledged to press the low fare cases now in the United States Court to an early and if possible successful issue, obtaining for the people rights to which they are clearly entitled under existing ordinances.

It has stood pledged to obtain for the people every improvement possible in present service.

Surely a great deal has been done to better conditions which formerly existed and to render the relations which the municipality should bear toward these corporations such as the masses of the people may approve.

STREET CONDUITS.

Instead of giving away new permits to occupy the public streets for private corporate uses, the present administration early set about to secure something in return. As an example

of what has been done the concessions gained from The Home Telephone Company may be cited. This company made a hard fight for permission to lay its wires in various streets. The administration interposed a requirement, however, that in laying the conduits they should be constructed at least 50 per cent. larger than desired for the company's own use, the extra space to be at the disposal of the city. The company accepted this provision and it has been enforced during the progress of its work. The company has used $4\frac{1}{2}$ inch terra cotta for conduits and has laid to date 1,277,033 feet of ducts, or 241.86 miles; 1,160,686 feet were laid in 1898. The city has control of half of these conduits, which will be of immense value to it for the carrying of wires during the coming years.

The administration endeavored to obtain the passage of legislation at Columbus providing that the city might own and control all of its conduits and lease the same to companies desiring them, but the bill failed of passage. The building of subways and conduits has, nevertheless, been encouraged in the effort to remove poles and overhead wires from the streets.

The policy of requiring a just return for every privilege granted by the city to corporations has further been illustrated in the demand by the city that all companies running wires through river tunnels or other city conduits for limited distances should pay a fixed rental therefor. In pursuance of this policy the city now receives about \$700 annually from this source.

THE DEPARTMENTS.

Each successive year under this administration has brought increased efficiency and better results for the money expended in each of the several city departments. The Directors have made a careful study of the work entrusted to their care and have endeavored, without exception, to give the public the best possible service. Frequently during the progress of the administration the most complimentary reports have been received from the public in reference to the

management of the various offices and institutions, and it is with no small degree of satisfaction that the administration refers in this address to the accomplishments achieved in department work.

DEPARTMENT OF PUBLIC WORKS.

In no similar period of the city's history has so much work been done in advancing the ordinary class of city improvements and in reducing contract prices on such work as has been accomplished during the present administration.

This department has carried on an unprecedented amount of general city work, such as paving, sewer building, laying of water pipe, street cleaning and street lighting. It has in addition to this carried forward great public improvements started by the administration with marked success, and has guarded well the city's interests in the expenditures made thereon.

The prices now paid for various kinds of material and work have been greatly reduced as compared with those paid a few years ago and are in keeping with the policy announced at the outset of this administration that special attention would be given to cutting down expenses.

STREET PAVING.

The record of the present administration for street paving is a remarkable one.

When the administration came into power there were in the city 105.53 miles of paved streets. To-day there are 159.57 miles of paved streets in Cleveland, an increase of 54.4 miles during this administration. In other words, there have been laid by this administration more than one-half as many pavements as existed altogether at the time it came into power.

Insofar as possible the wishes of citizens living on streets which were to be paved have been observed when choosing the kind of pavement to be laid.

The tendency of late years has been toward brick or asphalt paving for residence streets and avenues, and the administration has kept in line with this movement and has

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obtained for the people satisfactory prices and the best of workmanship.

The kinds of pavement laid by the administration are shown in the following table, which gives the amount of paving of all kinds in the city on January 1st, 1895, and on January 1st, 1899, respectively:

	1895	1899
	MILES.	MILES.
Asphalt.....	3.84	8.50
Stone.....	75.47	90.20
Brick.....	23.31	52.00
Wood.....	1.46	1.70
Cinder macadam.....	.73	6.75
Cobblestone.....	.05	.05
Miscellaneous.....	.67	.37
	105.53	159.57

The present city administration has succeeded in lowering prices of asphalt paving to a notable degree. Under specifications drawn by previous administrations the prices for asphalt paving ranged from \$2.55 to \$2.95 per square yard. The paving of East Prospect street, under the previous administration, was done at the last named price.

The average price per square yard for asphalt paving done by this administration last year was \$1.73, an improved quality of pavement being laid and a ten-year guarantee being required. Had these prices prevailed for the paving of East Prospect street alone, property owners would have saved over \$40,000 on the aggregate job.

Certain assertions have been made that the price of brick paving has increased under this administration. When properly explained, this statement is deprived of weight.

Prior to this administration the brick pavement laid in the streets was four inches in depth, whereas, under this administration five-inch brick has been used, this being considered more economical in the long run, the increase in the

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price being more than compensated for in the increased durability of the brick. Prices for dressed block paving have also been greatly reduced, as will be shown from the following schedule for the years named:

	1895	1896	1897	1898
Price per sq. ft.....	30.13c	27.47c	25.10c	24.80c

(Attention is called to appended tables showing amount of all kinds of paving done by this administration each year, together with names of streets paved.)

SEWER BUILDING.

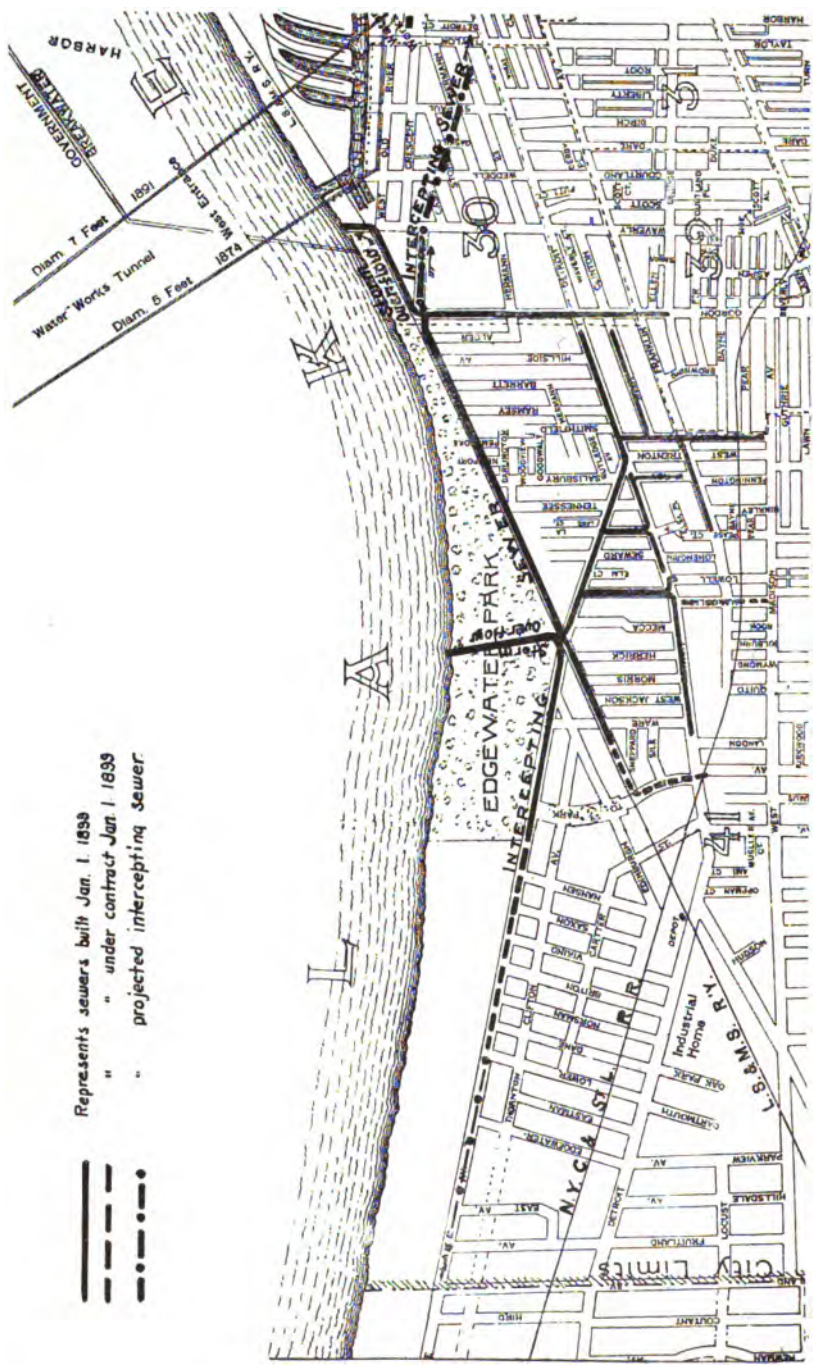
It can be said, without fear of contradiction, that more and better sewers have been constructed under this administration than for any two administrations previous.

The amount expended for sewers in 1898 was \$624,000, as compared with \$402,454.97 for 1897; \$201,669.71 for 1896; \$122,767.97 for 1895, and \$203,202.89 for 1894.

The following table prepared by City Engineer Rawson shows the number of cubic feet of masonry embraced in sewer work for each year from 1893 to 1898, and the lineal feet of vitrified clay pipe in the same period, attention being called to the reduction of pipe used resulting from the building of more adequate drains:

Year.	Masonry Cubic Feet.	Crock Pipe Lineal Feet.
1893.....	611,848	15,810
1894.....	348,948	34,949
1895.....	261,237	18,719
1896.....	577,118	13,325
1897.....	1,015,019	11,560
1898.....	2,194,615	5,542

The price paid for sewers has been notably reduced for all the ordinary classes of construction. The average price per cubic foot of all sewers constructed is somewhat higher, however, owing to the increased cost of the many large main and submain sewers being built.



*Intercepting Sewer, Western Portion,
and Connecting Main Sewers.*

Showing What Is Being Done for Better Sewerage on the West Side.

(Attention is called to appended tables for names of streets in which sewers have been built.)

SIDEWALKS.

All classes of citizens appreciate good sidewalks. Under the present administration 41.61 miles of sidewalks have been laid as compared with 8 miles during the period covered by the previous administration, the amount laid for the years named being as follows:

1893	1894	1895	1896	1897	1898
5 mi.	3 mi.	9.52 mi.	11.37 mi.	8.87 mi.	11.85 mi.

CLEANING PAVED STREETS.

Since 1894 a persistent effort has been made to lessen the cost of cleaning paved streets, and the results are fully shown by the figures for last year.

Prior to the present administration, or in 1894, the cost was \$53.60 for each mile of street cleaned during that year, while in 1898 the cost was only \$16.27 for each mile of street cleaned.

In almost direct ratio to the decrease in the cost of cleaning streets has been the increase in miles of streets cleaned, this increase being from 519 miles in 1894, the last year of the preceding administration, to 3,295 miles in 1898.

The following table presented by the Director of Public Works to the Council is official and shows the results accomplished, both in the lessening of prices and in the increase of the work done from year to year:

Year.	Miles of Paved Streets Cleaned.	Average Cost per Mile.
1891 and 1892.....	937½	\$33 26
1893.....	665	36 10
1894.....	519	53 60
1895.....	877	36 40
1896.....	1,078	23 20
1897.....	2,107	19 21
1898.....	3,295	16 27

MAYOR'S MESSAGE.

CLEANING CATCH-BASINS.

In addition to the decreased cost of street cleaning there has also been effected a saving in the cost of cleaning catch-basins, the prices for the last six years being as follows:

	1893	1894	1895	1896	1897	1898
For each catch-basin cleaned.....	\$0.81	\$0.79	\$0.70	\$0.60	\$0.49	\$0.47

DREDGING.

The expense of dredging the river from year to year is considerable. In 1898, with less money paid for dredging than was expended in each of the five previous years, there was a clear channel wrought out for vessels of deep draught to a point higher up the river than at any previous time, this being possible owing to the decrease in the cost per yard, without increasing the total amount paid for this purpose annually. The uniform price for dredging under this administration has been 12 cents per cubic yard, while previously it was 15 cents per cubic yard.

The amount of dredging done, the price per yard and the total amount paid to contractors are shown in the following table, the increase for 1896 being explained by special river improvements in progress during that year:

Year.	Cubic Yards.	Price per Yard.	Paid Contractor.
1893.....	131,485	15 cents.	\$19,718 25
1894.....	124,833	15 "	18,724 95
1895.....	157,461	12 "	18,895 32
1896.....	307,865	12 "	36,947 80
1897.....	167,778	12 "	20,133 36
1898.....	151,228	12 "	18,147 36

ELECTRIC STREET LIGHTING.

The placing of arc lamps on the principal streets has been pushed with especial vigor to the great satisfaction of residents on such streets and the public in general.

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The number of arc lamps now in use is three times the number of lamps in use at the opening of the present administration, as shown by the following table, which gives the number of lamps for the years named:

1893	1894	1895	1896	1897	1898	1899
188	230	251	334	500	854	879

The contract for electric street lighting was formerly made for only 2,300 hours per year, whereas the present administration has operated under a schedule of illumination all night and every night of 3,760 hours. Under the former schedule the cost averaged \$88.67 per light, while under the present schedule for the three years it is given as follows; particular attention being called to the reduction of \$3.36 per lamp for the year 1899 as compared with the preceding years:

	1896	1897	1898	1899
All night and every night, 3,760 hours,...	\$94 80	\$94 80	\$93 24	\$89 88

The following is a list of the principal streets upon which electric lights have been placed by this administration, with the number of lights in each case:

Prospect street, from Erie street to Case avenue, 18; Jennings avenue, from Abbey street to Brainard street, 16; Woodland avenue, from Willson to South Woodland avenue, 17; Broadway, from Davies street to Miles avenue, 34; Pearl street, from Clark avenue to city limits, 17; Davis street, and Kingsbury Run viaduct, 6; Clark avenue, from Merchant to Ridge avenue, 23; Lorain street, from Harbor to Wellington street, 19; Willson avenue, from Hawthorne to St. Clair street, 20; Euclid avenue, from Willson avenue to city limits, 35; Miles avenue, from Broadway to city limits, 5; Cedar avenue, from Perry street to Murray Hill, 39; Quincy street, from Willson to Bolton avenue, 16; Orange street, from Cross street to Case avenue, 11; Detroit street, from Duane street to Highland avenue, 35; Harvard street, from Broadway to Marcelline avenue, 7; Bolivar street, from Sheriff to Erie street, 3; St. Clair street, from Canfield to North Perry street, 6; Kinsman street, from Griswold street to Woodland Hills avenue, 21; Marcelline avenue, from Broadway to Harvard street, 6; Central avenue, from Willson to Alanson

avenue, 12; Huron street, from Erie to Brownell street, 2; Scovill avenue, from Brownell street to Willson avenue, and from Arlington to Dyke street, 7; Franklin avenue, from State to Gordon, 13; Superior, from Muirson to Willson, 24; East Prospect, from Willson to Bolton, 18; Clinton, from Hanover to Liberty, 7; Willson, from Broadway to Woodland, 14; Woodland Hills, from Gaylord to Gorman, 3; Croton, from Belmont to Short, 5; Hough, from Willson to Ansel, 23; Maple, from Woodland to Central, 4; Murray Hill, from Cedar to Mayfield, 6; Sterling, from Woodland to Central, 2; Chestnut, from Erie to Dodge, 5; Sawtell, from Woodland to N. Y., C. & St. L. R. R., 4; Jefferson, from Pelton to Herschel, 5; Sixth, from Willson to Norwood, 4.

VAPOR LIGHTING.

In order to improve the class of lighting in the outlying districts the Welsbach burner was adopted in 1898 for vapor lamps.

The total number of these lamps now in use is 2,300. Although the Welsbach burner gives a light of 70 candle power instead of 16 candle power under the old system, the Welsbach burner displaces only two of the old lamps, thus giving the outlying districts light equal to that used to illuminate the parks and boulevards in place of the old and smoky street lamps.

The cost of vapor street lighting under the present system is less than under the old system. The cost under the old system, however, was greatly reduced, that for 1897 being the lowest in the city's history. How the reductions were made are shown in the following table:

1894	1895	1896	1897
\$18.25	\$18.25	\$17.95	\$13.98

CARE OF GAS STREET LAMPS.

In the care of gas street lamps there has been a steady reduction in prices, as is shown by the following schedule, giving the price per lamp for the years named:

	1893	1894	1895	1896	1897	1898
On east side of the river.....	\$4.36	\$4.49	\$4.26	\$4.08	\$3.90	\$3.70
On west side of the river.....	4.36	4.49	4.31	4.15	3.97	3.75

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STREET SIGNS.

When this administration came into power street signs existed only in isolated places and then of very poor variety.

A contract was let in 1896 for new and attractive signs sufficient to cover the entire city. The work of putting up these signs has been steadily advanced until all the streets are now supplied, adding greatly to the convenience of the public. The number of new street signs erected to date is 2,917; all are under a fifteen-year guarantee.

WATER WORKS DEPARTMENT.

By careful management the net profits of the Water Works Department for the last year were brought to the enormous sum of \$444,797.98.

The results obtained in this division under the present administration is an evidence of what may be done in other branches under municipal control.

The profits in 1898 were 69 per cent. of the gross receipts. These profits were devoted to the payment of interest on outstanding obligations of the Water Works Department and the improvements now in progress, thus relieving the citizens of tax levy for this purpose.

Greater care than ever before has been exercised under this administration in the collection of water rents.

The successful operation of the department is shown by the following table, giving the gross receipts and profits for the last six years, the apparent decrease in 1896 being due to a large bill for repairs caused by accident to the pumping apparatus:

Year.	Gross Receipts.	Profits.
1893.....	\$547,053 04	\$393,761 00
1894.....	536,639 35	366,630 19
1895.....	575,843 78	405,613 04
1896.....	604,274 00	386,642 47
1897.. ..	623,173 22	440,479 00
1898.....	642,019 80	444,797 98

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The greatest improvement in this department has been the purchase of a new 20,000,000-gallon Allis pumping engine, the erection of which was completed in November, 1898, and signalized by a celebration in charge of the stationary engineers' association.

Superintendent M. W. Kingsley says relative to the efficiency of this pump: "The cost of pumping one million gallons with the new Allis engine into the reservoir has been \$1.03, while with our next best engine it has been \$1.78 per million gallons, or a decrease of 75 cents in the cost of pumping as compared with our other engine."

COST OF WATER PIPE.

There is no doubt that the city was formerly in the clutches of the so-called pipe pool, which ruled prices to suit itself.

This pool was given a hard blow last year when the city obtained the lowest prices ever known on water pipe.

By changing the specifications so that the hydrostatic test of the pipe might be had under proper supervision at the pipe foundry, instead of requiring the erection of testing plants in this city at great expense, the city secured a big reduction in bids.

Instead of paying \$23.10 per ton for pipe, as in 1894, the price for pipe in 1898 was \$14.93 per ton, a saving of \$8.17 per ton.

During 1894 and 1895 low prices were obtained on a quantity of pipe purchased at second hand from a Chicago company, but already the folly of this action has been proven by the breaking of mains and consequent damages to the streets.

The cost of water pipe per ton for each of the last six years is given herewith:

1893	1894	1895	1896	1897	1898
\$23.10	\$18.175	\$17.85	\$19.90	\$19.70	\$14.93

Prices for special castings show a corresponding decrease, being as follows for the years named:

1893	1894	1895	1896	1897	1898
\$50.00	\$42.50	\$37.00	\$38.00	\$34.00	\$33.00

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Prices for miscellaneous castings have been lowered in like manner, as shown by the following:

1893	1894	1895	1896	1897	1898
\$70.00	\$60.00	\$34.00	\$36.00	\$34.00	\$33.00

COST OF WATER VALVES.

Each year the city spends a large amount of money for iron valves to be used in the Water Works Department. These valves vary from size 3 to size 48.

A notable decrease in the price of all sizes was made in 1898, as compared with the previous years, this decrease corresponding with that effected in the cost of water pipe.

The following table shows a comparison of prices for the last two years, from size 16 to size 48, the smaller sizes being in the same proportion:

Year.	16"	20"	24"	30"	36"	42"	48"
1897.....	\$54.15	\$98	\$160	\$280	\$440	\$662	\$1,050
1898.....	45.00	85	125	235	370	565	840

STREETS PAVED OR REPAVED BY THE PRESENT
CITY ADMINISTRATION DURING 1895,
1896, 1897 AND 1898.

1895.

NOTE.—In the following tables brick is designated by "B;" Medina Block by "M B;" Common Medina by "C M;" Asphalt by "A;" and Old Common Medina by "O C M."

Name of Street.	From Street.	To Street.	Material.
Bailey al	Brownell.....	Crooked al.....	B
Brownell.....	Euclid.....	Scovill	MB
Broadway.....	Central	456 feet westerly.....	MB
Bright	Lake	St. Clair.....	MB
Claremont	Wade Park.....	W. line lot 26.....	B
Crawford road	Wade Park.....	Hough.....	B
Crooked al	Brownell.....	Huron.....	B
Cornell.....	1111 f. E. Euclid.	Murray Hill.....	B
Cedar	Fairmount.....	Doan Brook	MB
Central	C. & P. R. R.....	East Madison.....	MB
Dexter pl.....	Clinton.....	Franklin pl.....	B
Denison	Pearl.....	Foster.....	B
Emmet.....	Marquardt	Northerly end.....	B
Elton pl.....	Cedar.....	Northerly end.....	B
E. Madison.....	Superior.....	S. line Hough.....	MB
Farnham al.....	Monumental ct.....	Prospect.....	CM
Greenwood.....	Sibley.....	Central	B
Hazard.....	Superior.....	Payne.....	B
Hodge al.....	Prospect.....	Crooked al.....	B
Hough.....	Willson.....	E. line Dunham.....	B
Hough.....	Dunham	E. Madison.....	B
Hough.....	E. Madison.....	E. of Amesbury.....	MB
Ingleside.....	Hough.....	326 feet southerly.....	B
Iris al.....	Prospect.....	High.....	CM
James.....	Merwin.....	South Water.....	MB
Lohengrin.....	Detroit.....	Franklin	B
Main.....	Cuyahoga river.....	117 ft. S. Center.....	MB
Merwin.....	Center	1610 ft. southerly.....	MB
Merwin	Superior	Center.....	MB
Olive.....	Euclid	Hough.....	B
Park pl.....	St. Clair.....	Rockwell	MB

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1895—Continued.

Name of Street.	From Street.	To Street.	Material.
Quincy.....	Willson ..	Giddings	MB
Quincy.....	Giddings	Bolton.....	MB
Randall.....	Lorain.....	Bridge.....	B
Sibley.....	Perry.....	Hayward.....	B
Second.....	Cedar.....	Central.....	B
St. Clair.....	Water.....	Erie.....	MB
St. Clair.....	Willson.....	Becker.....	MB
South Water.....	Superior.....	10 ft. S. of West.....	MB
Seneca.....	Upper bridge.....	Jefferson.....	CM
Superior.....	Spring.....	Water.....	CM
Superior.....	Willson.....	Ansel.....	CM
Sterling.....	Hamilton.....	Euclid.....	CM
Sheriff.....	Bolivar.....	Eagle.....	A
Tilden.....	Crawford road.....	Euclid.....	B
Water.....	St. Clair.....	Front.....	MB
Water.....	Superior.....	St. Clair.....	MB

47 streets: 21 of Brick; 19 of Medina Block; 6 of Common Medina; 1 Asphalt.

1896.

Name of Street.	From Street.	To Street.	Material.
Euclid.....	Old city limits.....	New city limits.....	MB
East Madison.....	Cedar.....	Woodland.....	B
Eastman.....	Detroit.....	Thornton.....	B
Frankfort.....	Water.....	Seneca.....	A
Franklin pl.....	Franklin.....	Fulton.....	B
Giddings.....	Quincy.....	Woodland.....	B
Giddings.....	Euclid.....	Lexington.....	A
Hanover.....	Detroit.....	The Circle.....	B
Knox.....	Cornell.....	Mayfield.....	B
Lamont.....	Republic.....	1016 feet westerly.....	B
Lindus.....	Superior.....	Wade Park.....	B
Marcy.....	Wade Park.....	Hough.....	B
Orange.....	Broadway.....	Cross.....	MB
Princeton.....	Euclid.....	Hough.....	A
Platt.....	C. & P. R. R.....	East Madison.....	MB
Pearl.....	Detroit.....	Vermont.....	MB
Scovill.....	Willson.....	Cemetery.....	B
Superior d. st.....	Willson.....	Ansel.....	CM
Waller.....	Huron.....	Bolivar.....	OCM
Windsor.....	Case.....	Willson.....	B

20 streets: 4 of Medina Block; 11 of Brick; 3 of Asphalt; 2 of Common Medina.

1897.

Name of Street.	From Street.	To Street.	Material.
Alanson	Central	Quincy	B
Alpha al	Erie	Oak pl	OCM
Ashley al	Huron	Bolivar	OCM
Austin al	Waller	Miami al	OCM
Barn al	Erie	Short al	OCM
Bridge	Liberty	Gordon	CM
Brownell	Scovill	Woodland	B
Center	Detroit	Main	MB
Central	East Madison	Alanson	MB
Cherry	Perry	Cherry al	OCM
Cherry al	Cherry	Odell al	OCM
Clark	Pearl	Jennings	B
Erie ct	Erie	Brownell	B
Franklin circle	Franklin	Fulton	B
Gundryn al	Eagle	Central	OCM
Hammon	Central	Woodland	B
Kent al	Wood	Kent	OCM
La Grange	East Madison	Ingleside	B
Lexington	Willson	East Madison	B
Luverne	Archwood	Bradwell	B
Mayfield	Knox	Fairview	OCM
Monumental ct	Superior	Euclid	MB
Odell al	Orange	Cherry al	OCM
Osborn	Central	Scovill	B
Seelye	Woodland	Julia	B
Spangler	Hough	644 feet southerly	B
State	Detroit	Franklin	B
Sumner	Brownell	Erie	B
Van Buren	Central	Quincy	B
Vine	Scovill	Woodland	B
Ward	Lorain	Monroe	B
Waring	Payne	Perkins	B
Waverly	Detroit	Lorain	B
Webster	Erie	Brownell	B
Willow	Bridge app		MB
Woodland ct	Woodland	Southerly	B
York	Franklin	Bridge	B
York	Carroll	Monroe	B

38 streets: 23 of Brick; 4 of Medina Block; and 11 of Common Medina.

1898.

Name of Street.	From Street.	To Street.	Material.
Amesbury	Hough	367 feet southerly	B
Alabama	St. Clair	L. S. & M. S. R.R.	MB
Bell	Cedar	1670 southerly	B

MAYOR'S MESSAGE.

LV

1898—Continued.

Name of Street.	From Street.	To Street.	Material.
Bolton.....	Quincy	Woodland	B
Buckley.....	Harbor.....	Burton	B
Beta al.....	Bond.....	Erie.....	OCM
Cemetery.....	Quincy	Woodland	B
Clark.....	Jennings.....	Merchant.....	B
Cobleigh.....	Willson.....	Easterly end	B
Churchill.....	Doan.....	Parkwood	B
Cross al.....	Woodland	Broadway	CM
Davis.....	Lorain.....	Willard.....	B
Dunham.....	Hough.....	Wade Park	B
Ensign.....	Wilson.....	Kinsman.....	B
Eureka lane.....	Gehring.....	Columbus	B
Gladstone.....	Sawtell.....	Westerly end	CM
Hickox.....	Euclid.....	Prospect.....	A
Harbor.....	Lorain.....	Ravine.....	B
Holmden.....	Pearl.....	Jennings.....	B
Hamilton.....	Wood.....	Erie.....	A
Jersey.....	Fulton.....	Monroe.....	B
Kent.....	St. Clair	Lake.....	A
Kenilworth.....	Jennings.....	Pelton.....	B
Lane.....	Commercial	Canal.....	CM
Lincoln.....	Quincy	Woodland	B
Literary.....	Merchants	Herschel.....	B
Mandrake.....	Water.....	208 feet westerly	MB
McLean.....	Lorain.....	Monroe.....	B
Minerva.....	Hough.....	Northerly	B
Murray Hill.....	Mayfield.....	Adelbert.....	A
Oliver.....	Euclid.....	Superior.....	B
Ontario.....	Central.....	Factory.....	A
Ontario.....	Lake.....	Summit.....	A
Penn.....	Bridge.....	Monroe.....	B
Plymouth.....	Cedar.....	Central.....	B
Prospect widening.....	Erie.....	Brownell.....	MB
Putnam.....	Central.....	Scovill.....	B
Republic.....	Euclid.....	Lamont.....	B
Seneca.....	Superior.....	St. Clair	A
Streator.....	Cedar.....	Quebec.....	B
Scranton.....	Seneca.....	Cliff.....	CM
Scranton.....	Clark.....	Pearl.....	A
Wade Park.....	Norwood	Park boulevard.....	B
West Clinton.....	Waverly	Gordon.....	B
Wood.....	St. Clair	Summit.....	B
Woodbridge.....	Pearl.....	Rhodes.....	B
Willson.....	Southerly bridge.....	Approach.....	MB
Willson.....	Bower.....	Broadway.....	MB

48 streets: 30 of Brick; 5 of Medina Block; 8 of Asphalt; 5 Common Medina.

Grand total for this administration: 153 streets; 85 of Brick; 32 of Medina Block; 24 of Common Medina, and 12 of Asphalt.

PAVEMENTS NOW UNDER CONTRACT AND IN
PROGRESS, AS SHOWN IN ANNUAL
REPORT FOR 1898.

Name of Street.	From Street.	To Street.	Material.
Atlas al.....	Ohio	Race.....	OCM
Bank.....	Superior.....	295 feet N. of Lake....	A
Bond al.....	Bond	Erie	B
Bethesda.....	St. Clair.....	Lake	B
Carter.....	Scranton	C. C. C. & St. L. Ry.....	CM
Duane.....	Franklin	Woodbine	B
East Madison.....	Woodland	Holton.....	B
Fairfield	Seneca	Ontario.....	B
Fountain	Seneca.....	Ontario.....	CM
Monroe.....	Pearl	Willet.....	B
Ridge	Lorain.....	Denison	A
Woodland	Eagle.....	Central	A

12 streets.

UNDER CONTRACT.

Name of Street.	From Street.	To Street.	Material.
Avon al.....	Huron.....	Bolivar.....	OCM
Bridge.....	Pearl	Hurd	B
Bolton.....	Woodland	S. Woodland.....	B
Carroll.....	Fulton.....	Easterly	B
Chapel	Scovill	Woodland.....	B
Cook.....	Harbor	Burton	B
Court pl.....	Broome al.....	St. Clair.....	A
Courtland	Detroit	Lorain	B
Dibble.....	Willson	Norwood.....	B
Florence.....	Quincy.....	Woodland.....	B
Freeman.....	Pearl	Columbus	B
Greenwood.....	Central	Scovill	B
Harbor	Franklin	Lorain	B
Hickory Lane.....	Muirson	268 feet westerly.....	B
Hough pl.....	W. of Amesbury.....	E. of Amesbury.....	B
Jesse.....	Cedar	Central	B
Julia.....	Sawtell	Willson.....	B
Judd.....	Brownell.....	Harmon	B
Jay.....	Pearl	Jersey.....	B
Lorain.....	Pearl.....	McLean	A
Mechanic	Lorain	Bailey.....	P
Main.....	Water	East River	CM
Orange.....	Humboldt.....	Case	B
Pearl.....	Franklin.....	Walworth Run.....	A
Princeton	Hough	Linwood	B
Quincy.....	Bolton.....	Woodland Hills.....	MB



VIEW IN THE NEW WEST PARK CEMETERY.
An Improvement Made Without a Dollar of Tax Levy or the Sale of a Bond.

MAYOR'S MESSAGE.

LVII

PAVEMENTS—Continued.

Name of Street.	From Street.	To Street.	Material.
Race.....	Ontario.....	Westerly.....	B
Rose.....	Bridge.....	Jay.....	B
St. Clair.....	Water.....	C. C. C. & St. L. Ry.....	CM
Superior.....	Spring.....	Cuyahoga river.....	CM
Sayles.....	Cedar.....	Quebec.....	B
Superior viaduct.....	W. end swing.....	W. end masonry.....	A
Steinway.....	S. Woodland.....	Woodland.....	B
Scott.....	Detroit.....	Bridge.....	B
Willet.....	Lorain.....	N. of Monroe.....	MB
West Madison.....	Waverly.....	Gordon.....	B

36 streets: 26 of Brick; 4 of Asphalt; 4 of Common Medina; 2 of Medina Block.

PROSPECTIVE PAVING FOR 1899.

SOON TO BE UNDER CONTRACT.

Name of Street.	From Street.	To Street.	Material.
Arlington.....	Cedar.....	Scovill.....	B
Baden.....	Quincy.....	Central.....	B
Beechwood.....	Cedar.....	Quincy.....	A
Becker.....	Superior.....	St. Clair.....	B
Birch.....	Detroit.....	Lorain.....	B
Burton.....	Clark.....	Storer.....	B
Creighton.....	Perry.....	Chapel.....	B
Columbus.....	Center.....	Col'bus st. bridge.....	MB
Curtiss.....	Willson.....	Easterly end.....	B
Charles.....	Scovill.....	Woodland.....	B
Church.....	Pearl.....	Duane.....	B
Clark.....	Gordon.....	Lorain.....	B
Dare.....	Detroit.....	Lorain.....	B
Edgewood pl.....	Euclid.....	1012 feet northerly.....	B
Gordon.....	Detroit.....	Franklin.....	B
Gordon.....	Franklin.....	Bridge.....	B
Gordon.....	Bridge.....	West Madison.....	B
Gordon.....	West Madison.....	Lorain.....	B
Gordon.....	Lorain.....	Clark.....	B
Henry.....	Scovill.....	Woodland.....	B
Halsey.....	Cedar.....	Quebec.....	B
Jefferson.....	Herschel.....	Broadway.....	CM
John.....	Woodbine.....	Harbor.....	B
Kentucky.....	Woodbine.....	Bridge.....	B
Kentucky.....	Woodbine.....	Franklin.....	B
Keene al.....	Pearl.....	Penn.....	B
Krupp al.....	Keene al.....	Monroe.....	B
Lodge.....	Central.....	Quincy.....	B

MAYOR'S MESSAGE.

PROSPECTIVE PAVING—Continued.

Name of Street.	From Street.	To Street.	Material.
Linden.....	Central	Woodland	B
Logan	Cedar	Quebec.....	B
Liberty.....	Franklin	Lorain.....	B
Mayflower	Woodland.....	Croton	B
Mill	Monroe.....	C.C.C.& St.L.Ry.B&CM	
Perkins.....	Case.....	Willson.....	B
Putnam.....	Scovill.....	Woodland	B
Quinby.....	Willson	Giddings.....	B
Richland	Central	Quincy.....	B
Root	Bridge.....	Jay.....	B
Randall.....	Harbor.....	Bridge	B
Scott.....	Bridge.....	Scott al.....	B
Scott al	Scott	Courtland	B
Taylor	Detroit	Lorain	B
Thurman.....	Literary.....	Pelton	B
Vienna.....	Cedar.....	Southerly	B
White	Willson	Norwood.....	B
Wallingford ct.....	Woodland.....	Southerly end	B
Woodbine	Fulton.....	Randall	B
Whitman	Woodbine	Harbor.....	B

48 streets: 45 of Brick; 1 of Common Medina; 1 of Asphalt; 1 of Medina Block.

To the prospective paving for 1899 should be added the 36 streets now under contract (see preceding page), making a total of 84 streets.

SEWERS CONSTRUCTED BY THE PRESENT CITY
ADMINISTRATION IN 1895, 1896, 1897
AND 1898.

1895.

NOTE:—In the following tables Brick is designated by "B" and Pipe by "P." Brick and Iron by "B & I."

Name of Street.	From Street.	To Street.	Material.
Amesbury	Crawford	Hough.....	B&P
Addison	White	Luther.....	B&P
Beechwood	Quincy.....	600 feet northerly.....	P
Brooklyn.....	Sackett.....	Trowbridge.....	P
Brooklyn.....	Clark.....	Sackett.....	B
Brevier.....	Scranton.....	530 feet westerly.....	P
Beckman	Bolton	Oakdale.....	P
Clara.....	White.....	Luther.....	P
Craw	Quincy	C. & P. R. R.....	P

MAYOR'S MESSAGE.

LIX

SEWERS CONSTRUCTED—Continued.

Name of Street.	From Street.	To Street.	Material.
Carl.....	East Madison.....	Norwood.....	P
Center	Detroit	Main.....	B&P
Duane	Clinton.....	Franklin.....	P
Euclid.....	Old City limits.....	N. Y. C. & St. L. Ry....	B
Finn	Broadway	Colorado	P
Hart.....	Bolton.....	Oakdale.....	P
Elton.....	Cedar.....	Northerly	P
Geneva.....	Woodland	Beaver.....	P
Hough.....	East Madison	Giddings.....	B&P
Howard.....	Scranton	Jennings	P
Harrison	Hill.....	400 feet southerly.....	P
Judd.....	Brownell.....	Harmon	P
Knox.....	Mayfield.....	Cornell	P
Kennedy	Oakdale.....	Woodland Hills....	B&P
Louis.....	Sackett.....	Trowbridge.....	P
Marcelline.....	Broadway	Harvard	B
Miles	Broadway	City limits.....	B
Mayfield.....	630 feet of Euclid.....	Fairview.....	B
Main	Sycamore.....	West Center.....	B&P
Maud	St. Clair	Crumb	P
Merwin.....	James	Center	B
Murray Hill.....	Mayfield.....	Cornell	B
Newell	Castle.....	Clark.....	P
Norton.....	Lorain.....	800 feet southerly.....	P
Platt.....	Giddings.....	Carr	P
Park Place	St. Clair.....	Rockwell.....	P
Raynor.....	Ridge	Easterly end	P
Starkweather.....	Merchant.....	Pelton.....	P
Sherman Les'g	Quincy.....	E. end Sherman	B
Summit	Wood	Seneca	B&P
Solon	Trumbull.....	Warren	P
Spangler	Spur at Hough.....		P
Superior branches.....		At Sherbrook.....	P
		At Rockford.....	P
		At Norwood.....	B
		At Willars.....	P
		At Russell	P
		At Giddings	B
		At Seedle.....	P
		At Robinson	P
		At Grafton.	P
		At Genesee.....	B
		At Van Ness	P
		At Marcy	B
		At Ansel.....	B

MAYOR'S MESSAGE.

SEWERS CONSTRUCTED—Continued.

Name of Street.	From Street.	To Street.	Material.
Stanton	Giddings.....	East Madison.....	P
St. Clair branches.....		At Munich	B
		At Oxford	B
		At Ruskin.	P
		At Merkel	B
		At St. Clair ct.....	P
		At Iron al	P
Second	Cedar	Southerly.....	B
Stella pl.....	Woodland	600 feet northerly.....	P
Trumbull.....	Forest.....	End	B
Tennyson	S. Woodland.....	Evarts.....	B
Willson.....	Lake Erie	Kindsvater.....	B&IO
Woolsey extension.....	At Myron.....		P
Water street branch.....		At Mandrake.....	P
Euclid branches.....		At Luciel.....	P
		At Lyman.....	P
		At Ridgewood.....	P

71 streets: 7 Brick and Pipe; 1 Brick and Iron; 21 Brick; 42 Pipe.

1896.

Name of Street.	From Street.	To Street.	Material.
Ames	Miles	Southerly	P
Abram	Branch	Mentor ..	P
Amos	East Madison.....	Edwards	B
Agnes ct	Scranton	Southerly.....	P
Anton.....	Superior.....	Hoffman.....	B
Bigelow	Clark.....	Brinsmade.....	B
Becker pl.....	St. Clair.....	Becker	P
Buckley.....	Burton	Harbor.....	B
Bradwell.....	Pearl	Luverne.....	B
Burton	Clark.....	Storer	B
Barnum ct.....	Hough.....	Southerly.....	P
Bridge	Gordon	Waverly.....	B
Clark	Ridge	Lorain.....	B
Corwin	Woodland	Holton	B
Eastdale.....	Quincy.....	Ally northerly.....	B
Edgewood pl.....	Cedar.....	Southerly	P
East View.....	Scranton	Titus.....	B&P
Fraze	Petrie	Dolloff	P
Foljambe.....	Broadway..	Colorado	P
Giddings	Wade Park.....	Superior	B
Grand.....	East Madison.....	Herald	B&P
Harvard	Marcelline.....	Jones	B
Harkness.....	Marcy	Crawford road	B

MAYOR'S MESSAGE.

LXI

1896—Continued.

Name of Street.	From Street.	To Street.	Material.
Herald.....	Woodland.....	350 feet southerly.....	P
Hamilton.....	Erie.....	Wood.....	B
Halsey.....	Cedar.....	Southerly.....	P
Julia.....	Willson.....	Sawtell.....	B&P
Jerome al.....	Jasper.....	Minkon.....	P
Kidder.....	Swiss.....	Hamburg.....	P
Luverne.....	Bradwell.....	High View.....	P
E. S. & M. S. R. R.....	Alger.....	Lake.....	B
Mather.....	Ansel.....	Wade Park.....	B
Montrose.....	Wade Park.....	Southern.....	B
Myrtle.....	Buckley.....	Cook.....	B
McCurdy.....	Woodland Hills.....	Holton.....	P
Martin.....	Broadway.....	N.Y. P. & O. R. R.....	B
Mason lane.....	Case.....	Kinder.....	P
Morton.....	Broadway.....	Tod.....	B&P
Marcy stubs at Blaine, Kenmore and Meridian.....			B
Pennsylvania.....	Russell.....	Dunham.....	B
Pearl.....	Franklin.....	Brevier.....	B&IP
Race.....	Ontario.....	420 feet westerly.....	P
Rickey.....	Denison.....	462 feet southerly.....	P
Russell.....	Zoeter.....	Wade Park.....	B
Scranton.....	Pearl.....	Aiken.....	B
Shelbourne.....	Quincy.....	Northerly end.....	B
Sherbrook.....	Superior.....	Northerly end.....	P
Spangler.....	Hough.....	650 feet southerly.....	P
Thurman.....	Jefferson.....	Starkweather.....	P
Thurman.....	College.....	Jefferson.....	P
Track.....	Mead.....	Willson.....	B
Union.....	Broadway.....	Woodland Hills.....	B
Willson.....	Broadway.....	Track.....	B
Watkins.....	East Prospect.....	Cedar.....	P
Wilmars.....	Superior.....	Whitney.....	B
Wenham.....	Clark.....	Brinsmade.....	B
Willson.....	Julia.....	Track.....	B
Walworth Fl.....	Scranton.....	Southerly.....	WB
Yeakel.....	Oakdale.....	Woodland Hills.....	P
Young.....	Clark.....	Brinsmade.....	B

60 sewers: 23 of Pipe; 4 of Brick and Pipe; 1 of Brick and Iron Pipe;
1 of Wood; 31 of Brick.

1897.

Name of Street.	From Street.	To Street.	Material.
Anthony.....	Ridge.....	Easterly end.....	B
Armitage.....	Willson.....	St. Clair.....	B
Ashley al.....	Huron.....	Bolivar.....	P

MAYOR'S MESSAGE.

1897—Continued.

Name of Street.	From Street.	To Street.	Material.
Alanson branch.....	At Central.....		B
Baker.....	Luther.....	White.....	B
Berry.....	Ridge.....	Westerly.....	B
Bliss.....	St. Clair.....	Becker.....	B
Bellevue.....	Woolsey.....	Ansel.....	B
Bertram.....	N. of Central.....	55 feet southerly.....	P
Brandon branch.....	At Mayfield.....		B
Cloud.....	Burton.....	Alaska.....	P
Cherry al.....	Cherry.....	Odell al.....	P
Czar.....	Broadway.....	Colorado.....	B
Cumberland.....	Bolont.....	Oakdale.....	B
Carry.....	Armitage.....	Willson.....	P
Carabelli.....	Sublot No. 11.....	Mayfield road.....	P
Chandler.....	St. Clair.....	Southerly.....	B
Columbus.....	West River.....	Lorain.....	B
Churchill E. Lake.....	Doan.....	Parkwood.....	B&P
Detroit.....	Scovill lane.....	Lowell.....	B
Dean pl.....	Harvard.....	Hughes.....	P
Detroit.....	Lake ave.....	W. of Gordon.....	B
Duane.....	Woodbine.....	Franklin.....	B&P
Erie court.....	Erie.....	Brownell.....	B
East court.....	Kirtland.....	Easterly end.....	P
Forest.....	Kingsbury.....	Croton.....	B
Gloyd.....	Superior.....	Hoffman.....	B
Gilbert.....	Clark.....	Storer.....	B
Guy.....	Petrie.....	Weckerling.....	B
Hinde.....	Broadway.....	Tod.....	B
Horace.....	Green.....	Willet.....	P
Herald.....	Kinsman.....	Trenton.....	B
Harvard.....	Jones.....	Broadway.....	B
Halsey.....	Sayles allotment.....	250 feet southerly.....	P
Halsey.....	Quebec.....	530 feet northerly.....	P
Harvard (overflow).....			B
Jay.....	Pearl.....	Jersey.....	B
Kenmore.....	Marcy.....	Crawford.....	B
Kinkle.....	Pearl.....	Scranton.....	B&P
Lussenden.....	Central.....	Quincy.....	B
Lussenden.....	Central.....	Northerly end.....	B&P
Lane.....	Commercial.....	Canal.....	B
Lake ave.....	L. S. & M. S. R. R.....	Detroit.....	B
Literary.....	Pelton.....	Merchant.....	P
Literary.....	Pearl.....	Westerly end.....	B
L. S. & M. S. Ry.....	Lake ave.....	110 feet easterly.....	B
Malden.....	St. Clair.....	Donald.....	B
Madina.....	Woolsey.....	Ansel.....	B

MAYOR'S MESSAGE.

LXIII

1897—Continued.

Name of Street.	From Street.	To Street.	Material.
Monumental court.....	Ontario .	Euclid	B
Mayfield extension.....	At Fairview.....		B
Nevada.....	Bolton.....	Oakdale	P
Neville.....	Ridge .	Westerly end.....	B
Osborn.....	Central	Scovill	B&P
Orchard pl	Luverne	Northerly end	P
Prosser.....	Willson	Lyon.....	B
Quebec.....	Oakdale	Doan	B
Ruggles	Miles	Pratt.....	B
Rockford.....	Superior.....	Northerly end	P
Remington.....	Congress.....	Bolton	B
Rawlings.....	East Madison	C. & P. R. R.....	B
Rhodes.....	Clark	Southerly.....	B
Rockert	Petrie	Dolloff	B
Rutland.....	Kinsman	Southerly.....	B
Republic .pl.....	Republic	Westerly end	P
Sowinski.....	Woolsey.....	Ansel	B
Schaefer	East Madison.....	Becker	B
Stanard	Willson	Becker	B
Scovill lane	Detroit.....	Lake ave.....	B
State.....	Washington	Detroit.....	B
Tremont	Pelton.....	Starkweather	B
Van Buren extension	At Quincy		P
Wabash.....	Kinsman	Trenton	B
Willson branch		At Bower.....	B
		At Renovo	B
		At Francis	B
		At Sweeney.....	B
		At Lufkin.....	B
Willson	Julia.....	150 feet southerly.....	P
Walworth.....	Gordon	E. of Junction.....	B

80 sewers: 18 of Pipe; 5 of Brick and Pipe; 57 of Brick.

1898.

Name of Street.	From Street.	To Street.	Material.
Ally No. 1	Seneca	Westerly	P
Brinsmade	Ridge	Bigelow	B
Brandon	Mayfield.....	Paul	B
Brenton	Cedar	Central	B
Baden court	Baden	Easterly end.....	P
Billings	Euclid.....	E. Prospect.....	B&P
Case	Kingsbury.....	Woodland	B& I P
Case branches.....	At various streets		B
China	Siam.....	Chatham	P

1898—Continued.

Name of Street.	From Street.	To Street.	Material
Chandler.....	Donald.....	S. of St. Clair.....	B
Carlisle.....	Burton.....	Selden.....	B
Cornelia.....	Hodge.....	Woolsey.....	B
Cowley.....	Miles.....	Southerly end.....	P
Douse.....	Northerly end.....	S. of Broadway.....	B
Devine.....	Bailey.....	N.Y. C. & St. L. Ry.....	B
Detroit.....	Scovill lane.....	Lake ave.....	B
Detroit brs.....	At Elsa pl. and West Roye ave.....		B
Detroit.....	Eliot.....	Landon.....	B
Detroit.....	Eliot.....	Lowell.....	B
Dorothy pl.....	Willson.....	Easterly end.....	P
Edgewater Park overflow.....			B
Eglindale.....	Scranton.....	East View.....	B
Evins court.....	Woodland.....	Southerly end.....	P
Eliot.....	Lake.....	Detroit.....	B
Fountain.....	Seneca.....	Ontario.....	B
Fir.....	Gordon.....	Waverly.....	B
Fen.....	Quincy.....	C. & P. R. R.....	B
Fair court.....	Dunham.....	Easterly end.....	P
Foljambe.....	Alley.....	Outhwaite.....	P
Fairfield.....	Pelton.....	Westerly.....	P
Francis.....	Willson.....	Tod.....	B
Franklin.....	Watterson.....	Pease court.....	B
Franklin branch.....	At Hinkley.....		B
Fairview.....	Murray Hill.....	Alley.....	B&P
Finney.....	Valley.....	Hooker.....	B
Groton.....	Union.....	Etna.....	B
Grace.....	Ridge.....	Geib.....	B
Gehring.....	Pearl.....	Lorain.....	B
Hurlbut.....	Payne.....	Perkins.....	B
Hill.....	Commercial.....	Harrison.....	B
Judd.....	Perry.....	Harmon.....	B
Junction.....	Walworth.....	Train.....	B
Jefferson.....	Tremont.....	Professor.....	P
Jersey.....	Bridge.....	Fulton.....	B&P
Korman.....	Woolsey.....	Ansel.....	B
Keene alley branch.....	At Jersey.....		P
L. S. & M. S. R. R.....	Waverly.....	Gordon.....	B
Libbie.....	Clark.....	Brinsmade.....	B
Le Roy pl.....	An alley.....	Southerly end.....	P
Mandrake.....	Water.....	Westerly.....	P
Minnesota branch.....	At Payne.....		B
Newark.....	Burton.....	Selden.....	B
Orange.....	Forest.....	Humbolt.....	B
Oakdale.....	Quincy.....	Woodland.....	B

MAYOR'S MESSAGE.

LXV

1898—Continued.

Name of Street.	From Street.	To Street.	Material.
Ottawa	Marcelline.....	Jones	B
Oliver.....	Superior.....	Euclid.....	B
Pleasant.	Clark	1150 feet southerly....	B
Russell.....	Superior.....	Wade Park.....	B
Roberts	Burton.....	Selden	B
Right of Way.....	Gordon.....	Alger.....	B
Ridge branches at Halle, Fiske, Schneider and Wentworth.....			B
Svoboda.....	Forest.....	Easterly end.....	B
Shaw.....	Ridge.....	Easterly end	B
Stoneman	Kinsman	1000 feet southerly....	B
Simon	Woolsey	Ansel.....	B
Sagamore.....	East Madison	Ingleside.....	P
Talbot.....	Amesbury.....	Ansel.....	B
Train	Junction.....	Swiss.....	B
Titus.....	Scranton.....	East View.....	B
Valley.....	Harvard	Finney.....	B&IP
West Roy.....	Detroit.....	Franklin	B&P
Watterson.....	Detroit	West Madison	B
West Clinton.....	Watterson	Gordon	B
Woodbridge.....	Rhodes.....	Burton.....	P
Wade Park.....	Dunham.....	Norwood.....	P
Willson	Bower	The Bridge.....	P

76 sewers: 17 of Pipe; 4 of Brick and Pipe; 2 of Brick and Iron Pipe; 53 of Brick.

SEWERS UNDER CONTRACT AND IN PROGRESS.

Name of Street.	From Street.	To Street.	Material.
Boulevard	Desmond	Detroit.....	B
Bergen.....	Train.....	Clark	B
Desmond.....	Lake.....	Boulevard	B
Gordon	Breakwater	Bridge.....	B
Lake ave	L. S. & M. S. Ry.	Lower.....	B
Lake ave.....	At L. S. & M. S. Ry		B
Miles Park st.....	Broadway	Sawyer.....	B
Malcolm.....	Detroit	West Madison.....	B
Tod	Heisley	Fleet.....	B
Woodland	Eagle	Cross	B
Walworth	E. of Junction	100 feet W. of Mill....	B

UNDER CONTRACT.

Name of Street.	From Street.	To Street.	Material.
Clark.....	Walworth.....	Lennox	B
Walworth.....	100 feet W. of Mill.....	Bradford and C'tr.....	B
Bridge	Gordon.....	Browning.....	B

PROSPECTIVE SEWERS FOR 1899.

Name of Street.	From Street.	To Street.
Avon al.....	Huron	Bolivar.
Allman ct.....	Starkweather	E. and W. ends.
Broadway	Warner road.....	Miles Park.
Browning.....	Franklin	Bayne.
Burton	Storer.....	Rhodes.
Blaine.....	Marcy	Crawford.
Bayne	Gordon	Watterson.
Bazetta.....	West Madison	Willard.
Berlin	West Madison.....	Lorain.
Belmont.....	Woodland.....	Orange.
Beaver.....	Nicola.....	Chester.
Beaver.....	Geneva al.....	Chester.
Baldwin	Doan brook.....	Giddings brook.
Case	Lake Erie	Euclid.
Chatham	Pearl	Willett.
Carran.....	Congress	Bolton.
Congress.....	Quincy	Carran.
Conover.	West Madison	Lorain.
Colfax.	Deckand.....	150 feet W. of Herald.
Colfax.....	Easterly end.....	300 feet W. of N. E. av.
Congress.....	Carran.....	Remington.
Clark.....	Isabella	Gilbert.
Camden	Lenox	Bigelow.
Conrad.....	Higgins	Ridge.
Davis.....	West Madison	Willard.
Diemer.....	Spilker	St. Clair.
Deckand.....	Kinsman.....	Colfax.
Doan.....	Lake Erie	City limits.
Eben.....	Harvard	Finney.
East Madison.....	Holton	Southerly.
Edmunds.....	Amesbury	450 feet easterly.
Ewald.....	East Madison	Grand.
Erie.....	Superior.....	Woodland.
Franklin	Malcolm.....	Pease court.
Franklin.....	Watterson	220 feet W. of Gordon.
Fairview.....	Mayfield.....	Lake View Cemetery.
Frease	Burton	Northerly end.
Fountain.....	Train.....	Clark.
Franklin court.....	Woodbine.....	Mabel.
Glass.....	Light	Norwood.
Gauge	Train.....	Clark.
Garden pl.	Central	Northerly end.
Hawthorne	Willson.....	Second.
Home	East Madison.....	Westerly end.
Hartnell	West Madison	Lorain.

MAYOR'S MESSAGE.

LXVII

PROSPECTIVE SEWERS—Continued.

Name of Street.	From Street.	To Street.
Harrison	Hill	350 feet southerly.
Hicks	Franklin	Bridge.
Hazen	Perry	Chapel.
Hope	Higgins	Ridge.
Hillman	Broadway	Tod.
Higgins	Clark	Lorain.
Interceptor in Lake	Water	Muirson.
Interceptor in Boulevard	Adams	Doan.
Interceptor—Terminal Tunnel and Works.		
Kilfoyl	Glass	Carl.
Keene alley	Jersey	Penn.
Kentucky	Woodbine	Whitman.
Lewiston	St. Clair	Bliss.
Landon	Detroit	West Madison.
Lowell	Detroit	Franklin.
Lower	Lake ave	Detroit.
Lennox	Clark	Southerly end.
Meridian	Marcy	Crawford.
Marcy	Superior	Wade Park.
Muirson	Lake Erie	Walnut.
Miles Park	Sawyer	Woodland Hills.
Norwood	St. Clair	Hough.
North East	Kinsman	Hillside.
Nicola	Kinsman	Beaver.
Oxford	L. S. & M. S. R. R.	St. Clair.
Pratt	Woodland Hills	Easterly end.
Purdy	Walworth	Lorain.
Petrie	Morgan Run	Vivian.
Rowley	Jennings	Merchant.
Scranton	Walworth	Kenilworth.
St. Clair	Wason	Lawrence.
Seward	Lake	Detroit.
Spilker	East Madison	Diemer.
Scott alley	Courtland	Scott.
Storer	Burton	Rhodes.
Storer	Burton	Gauge.
Superior	Muirson	Erie.
Thurman	Pelton	Literary.
Trumbull	Humboldt	Forest.
Tod	Fleet	Fullerton.
Train	Gauge	Junction.
Turney	Warner road	Force.
Vestry	Pearl	York.
Wilhelm	Holton	Southerly end.
Warden	Pearl	Easterly end.

PROSPECTIVE SEWERS—Continued.

Name of Street.	From Street.	To Street.
Wellington	Detroit	West Madison.
West Trenton	Detroit	Franklin.
West Madison ..	Gordon.....	Pennington.
West Madison	Pennington.....	Malcolm.
West Madison.....	Malcolm.....	Wellington.
West Madison	Wellington	Berea road.
Woodland	Erie	Maple.
Woodland	Maple	Case.
Woodland	Case.....	Willson.
Walnut	Muirson.....	Erie.
Warner road.....	Turney.....	Broadway.
Walworth.....	Section No. 4.	

Grand total for this administration: 287 sewers constructed; 11 sewers in progress; 105 sewers proposed.

DEPARTMENT OF CHARITIES AND CORRECTION.

The excellent standing of the Department of Charities and Correction during the first two years of the present administration has been fully maintained during the two succeeding years. There has been a constant effort to lessen the expenses of the department without detracting from its usefulness to the public, and every tax-payer should be more than satisfied with the results accomplished. Great care and wisdom have been exercised in dispensing the funds allotted to the department in order that imposition may be avoided and equal justice done to all.

Prominent among the accomplishments of the department under this administration, exclusive of those of the Workhouse and Infirmary (which are discussed separately), may be mentioned:

The erection of a children's hospital, without tax levy, providing accommodations for 100 patients, and meeting a want long felt for the proper care of children who are ill and unable, for various reasons, to enter private hospitals.

The purchase of land south of the city, without tax levy, for a new Detention Hospital and the erection of a detention house thereon in accordance with the most approved plans for such building.

The transformation of the former "Pest House Farm," without tax levy, into the beautiful "West Park Cemetery;" and the reservation of the Lorain Street Cemetery site for the location of a Children's Reformatory School.

The work of improving the West Park Cemetery has been rapidly advanced and this burial ground, comparable with any in the country for natural attractiveness, will be opened for public use this season. This important improvement has been made and paid for out of money saved in the department and accumulated earnings of the cemeteries, without asking the tax-payers for a single dollar in levy or issuing a bond. This improvement will also be the means of deferring for some years the levying of any tax for cemetery pur-

poses, as the revenue from the sale of lots in West Park Cemetery will more than provide for the maintenance of such cemeteries as will have ceased to be self-sustaining.

HOUSE OF CORRECTION.

The House of Correction, instead of being a burden upon the city as formerly, is now not only self-sustaining but a source of revenue. The reckless manner in which this institution was formerly managed is indicated by the statement that in 1892 the sum of \$51,447.43 was turned into the House of Correction fund to meet the deficit and during the next two years 1893 and 1894 the sum of \$43,788.50 was likewise required. The present administration came into office in April, 1895, and in May it was confronted with a defalcation of the bookkeeper appointed under the previous administration of over \$10,000, and of unpaid bills in this connection amounting to \$4,385. In order to meet this the tax levy was continued for 1896; no transfers of funds were made thereafter, however, and on the last day of December, 1896, a cash balance of \$30,096.64 was in the City Treasury to the credit of the House of Correction, \$4,101.28 more than the amount of the tax levies for the two years, with an outstanding indebtedness of only \$7.05. For the years 1897 and 1898 no tax levies or transfers were made for the fund; on the contrary, the city was able to transfer \$6,000 of net earnings from the House of Correction fund to the Cemetery fund in 1898. On January 1st, 1899, the cash balance in the City Treasury was \$25,128.14, with an outstanding indebtedness of only \$137.26.

The foregoing figures seem incredible, but all can be verified by examining the annual reports for the years covered.

The splendid achievement referred to is directly attributable to the application of strict business management to the institution, the same rules having been applied as are enforced in well conducted mercantile or manufacturing establishments. Goods have been purchased in open market at the lowest cash prices, discounts have been taken for ready cash payments, a marketable product has been manufactured and sold at a fair profit, and all contracts for boarding outside



VIEW IN THE NEW WEST PARK CEMETERY.
This Cemetery is One of the Most Picturesque and Beautiful in the United States.

prisoners have been made at a rate of compensation sufficient to reimburse the institution for their board and care.

The prison is a model of neatness and order. The inmates are well fed, comfortably clad and warmly housed. Fewer prisoners have been allowed to escape, only seven having disappeared in the last three years in comparison with thirty-five in the three preceding years.

THE CITY INFIRMARY.

The same business methods which have prevailed in the management of the Workhouse have also been applied to that of the City Infirmary. There has been no tax levy for infirmary purposes required under this administration, but it is maintained by the usual income from the Dow tax and its own earnings. It is only necessary to refer to the records of the last six years to prove this fact.

In 1893, the expenditures for the Infirmary Department were \$10,000 in excess of the receipts.

In 1894, the Infirmary borrowed \$18,760 to assist in its operation.

In 1895, the first year of the present administration, the Infirmary was operated without borrowing and in addition to this discharged \$10,000 indebtedness of two years' standing.

In 1896, the Infirmary was operated without borrowing and had on hand over \$45,000 in cash at the close of the year.

In 1897, the Infirmary did not borrow, it paid for land costing \$5,000; constructed buildings and laid pavements and sewers exceeding \$20,000, and had over \$21,000 cash balance on hand at the close of the year.

In 1898, the Infirmary did not borrow, it paid for land \$17,300, erected a Children's Hospital to cost \$22,750, and had a cash balance on hand January 1st, 1899, of \$13,585.70.

While the lessening of the cost of operation has been in progress, many improvements have been made at the institution. The entire Infirmary and Hospital have been practically re-furnished, the interior repainted throughout; all heating and ventilating apparatus overhauled; laundry machinery repaired; new sanitation provided; automatic locks and door openers placed on doors of cells in insane wards, so that

all doors can be opened at one time as a safeguard against loss of life by fire; and the grounds of the institution beautified and improved.

Special attention has been given to improving the discipline at the institution, daily reports to the director are required containing a statement of the supplies received and how issued; a book of rules for the government of the employes at the institution has been put in force; the store-room has been placed on a business foundation, a daily inventory being taken and no supplies issued therefrom without an order from the head of some department; a system has been devised for checking the laundry work, and other similar innovations inaugurated; improved facilities for nursing the sick at the City Hospital have been provided—as an instance of this it may be stated that whereas there have been 108 cases of typhoid fever, there has been only one death from this cause.

A training school for nurses was established under this administration at the hospital with the result that more skilled nurses have been made available and the cost for attendance notably lessened. The inmates of the Infirmary and Hospital never had as many comforts and were never as well cared for as during the past four years.

OUT-DOOR RELIEF.

It has always been Cleveland's boast that it has provided generously for its indigent and unfortunate classes. Never has that claim been so well sustained as during the past four years. It has been the aim during this time to administer the affairs of this department in a liberal spirit, but at the same time to guard well the city's interest and to render assistance only where assistance was due. For this reason every case reported has been thoroughly investigated, where the applicant was able-bodied some return in labor has been required. This has been done not so much for the value of the labor as in keeping with the policy recognized by all students of charity work that it is advisable to give those aided an opportunity to earn what they receive, thus helping them to retain their independence.

DEPARTMENT OF ACCOUNTS.

The Department of Accounts has taken care of the municipal records and transactions of the city's business during the past four years in a more careful, painstaking and expeditious manner than ever before. A number of very important improvements in this department have been made by the administration in the interest of the public, among which may be noted:

First. The filing and indexing in 1897 and 1898 of the old city records from 1835 to 1891. These records were taken from boxes and barrels in the attic and basement of the City Hall, and carefully arranged, filed and indexed in a room set apart for the purpose, called the "Record Room." In the past it had been wholly impossible to obtain any information from these records except after long search in the dust and dirt of years' accumulation.

Second. The filing and indexing in a like manner of the old Justice of the Peace dockets and records. These records are very valuable and are now for the first time in shape for ready access.

Third. The establishing for the first time in the city's history of a complete record of the city's assets, based upon actual inventories taken of all city property.

Fourth. The adoption of an entire new system of accounting in the Market Department, House of Correction, Infirmary, Cemetery, Bridge, Police Court and Street Departments, whereby all transactions are shown by daily reports to the Auditor, and complete record is kept of all transactions.

Fifth. Improved method of managing the city's finances to such a point that the city's credit is at this time second to none in the country. The value of her bonds has increased from a sale on September 18, 1894 (the best sale of that year), of \$150,000.00 bonds at a basis of 3.656%, to a sale on January 9th, 1899, of \$50,000.00 bonds at a basis of 3.125%, the best sale since the foundation of the city.

The fact is also to be noted that while the city on the basis of this sale pays 3.125% on its bonds outstanding, it is receiving interest on its average daily balances in banks at the rate of

3.366%, a state of good fortune unequaled by any other city in this country.

Few persons have any idea of the magnitude of the city's business as shown by the transactions in the Auditor's office. The record for the past year forms an interesting study. In the disbursing division 15,732 orders for goods and work for the several departments were certified and forwarded; bills for the same examined and audited, and vouchers in payment to the number of 13,722, amounting to \$6,646,292.69, duly entered and disbursing warrants for same issued to the treasurer. Three thousand and thirty-two receiving warrants were issued, accounting for the receipt of \$7,563,190, for which reports from the various departments regarding same to the number of 4,621 were duly examined and audited. In 1897, 14,870 orders were certified, 13,715 disbursing vouchers, amounting to \$6,877,277.26, were issued, and 3,288 receiving orders issued accounting for receipt of \$7,203,256.54. In 1896, the record was 14,543 orders certified, 12,704 disbursing vouchers amounting to \$5,432,541.11, and 3,159 receiving warrants, accounting for \$6,037,367.54, issued. The books of the several departments have been audited monthly and an entire new system devised for the street department by which it is expected a clear, concise and correct account of all work done and the expense of same can be definitely shown.

Three hundred and fifty-one contracts have been certified, as against 299 for 1897; 331 for 1896; 1,692 resolutions and ordinances certified to the City Council, as against 1,478 for 1897 and 1,572 for 1896; and 2,163 reports of the condition of the various funds issued to the Council and to the Mayor and heads of departments, as against 1,252 for 1897, and 1,153 for 1896.

The rule has been adopted in the payment of claims, that all bills that reach the Auditor's office properly certified and approved before 3 P. M., shall, if duly examined and audited and found correct, be vouchered and warrants in payment be forwarded to the Treasurer the following morning, thus putting the city's business on an absolutely cash basis. It is estimated that the cash discounts and reductions in prices obtained on account of immediate payments thus established will exceed \$30,000 per annum.

The tax division has prepared 80 estimated assessments for street pavings and made up tax lists for 510 street improvements, on which the tax assessed amounted to \$754,000. This work occupies over 1,400 pages of duplicate and involves the working up of over 36,000 pieces of property. Ninety-five street improvements have been closed off the city's books, but, in view of the hard times, a special effort has been made to reduce all taxes for special improvements to the basis of actual cost as soon as possible after the expense of an improvement are paid, and consequently it has only been necessary to refund to the property owners the surplus tax on 39 streets, amounting to \$45,053.80. It is the aim of the division to keep all records up to date, so that property owners can at any time learn all the facts, figures and details in connection with any special assessment.

The method of keeping municipal records in vogue in the City Auditor's office, as well as the annual financial report, have been the subject of much favorable comment all over the country, by the highest authorities on such matters. Prof. Leo. S. Rowe, of the University of Pennsylvania, whose opinion on municipal statistics and methods of municipal accounting is regarded as standard authority the world over, in an article recently published in the "Annals of the American Academy of Political and Social Science," of which magazine he is one of the chief editors, says, "compared with the annual financial reports of other cities, the report of the Auditor of Cleveland is a model of clearness and simplicity."

FIRE DEPARTMENT.

The reputation of the Cleveland Fire Department for prompt and efficient service has been increased during the present administration until it is now admitted that Cleveland has one of the best fire departments in the country. To those who think that the life of a fireman is a tranquil and easy one, it is announced that the department responded to 1,182 alarms of fire during the year 1898. The fire losses for this year were on buildings \$332,122.96, and on contents \$496,587.79. During this administration the progress of the department has been materially aided by the addition of ten new firemen, the erection of two new engine houses of modern design on

Kinsman and Humboldt streets, respectively, within the appropriation for same, by the extension of the fire boat service, the addition of several new engines of latest design, the overhauling of the fire alarm and other apparatus and by numerous other improvements.

Plans are now under way to erect this year a new engine house at the corner of Abbey and Lorain streets. It is also desired to further extend the pipe line and fire boat service, to provide a new fire alarm system, if possible, and to extend the fire limits so as to keep pace with the growth of the city.

WIRES PLACED UNDERGROUND.

At the opening of its career the present administration undertook a determined crusade against the alarming multiplication of overhead wires in the down-town district, and has steadily sustained this effort until the business district of the city is now effectually cleared of all overhanging wires. Not only have the old wires been removed and poles taken from the streets, but a new method of construction has been inaugurated, that of building conduits and subways, relieving the city from further apprehension on this score. Owing to the work done by The Home Telephone Company, an unusually large amount of ducts were laid in the streets last year, the total reaching 1,409,294 feet, while the amount of subway completed reached 131,313 feet, whereas practically nothing in this line was accomplished prior to 1895. So great has been the advancement since that time that the administration would specially call attention to the following report, covering its term in office:

Number of poles removed.....	630
Feet of aerial wire removed.....	6,101,910
Feet of subway built.....	204,931
Feet of ducts laid in system.....	2,109,142
Feet of underground cable placed.....	314,691
Feet of underground conduit placed.....	41,315,610

BUILDING INSPECTOR'S OFFICE.

Cleveland has enjoyed a building boom during the year 1898, the report of the State Building Inspector showing that Cuyahoga County exceeds all counties of the State in this regard. For the first time in a number of years the fees in

the office of the Building Inspector have exceeded the expenditures, incident to the operation of the office, the former exceeding the latter by a small margin. The excess of expenditures over fees for 1897 was \$468.20, while in 1896 it was \$960.50. The amount of fees collected in the office has greatly increased during the past five years, the amount received each year being as follows:

1894.....	\$5,565 51
1895.....	5,891 62
1896.....	5,459 80
1897.....	5,854 80
1898.....	6,317 15

EXAMINING OF ENGINEERS.

Under the present administration the conduct of this department, so important to the engineers of the city, has been more satisfactory than under the former administration. The operation of the office has been careful and business-like. The records of licenses in the office have been carefully preserved, whereas under the former administration they were carelessly kept, and a great deal of valuable record was lost, and much confusion and dissatisfaction resulted.

DEPARTMENT OF POLICE.

The results accomplished by the Department of Police are a credit to the department, and indicate the faithfulness of the men in this branch of the city's service. The total expenditures for the department for 1898 were \$395,352.71, as compared with \$397,922.25 for 1897, a decrease of over \$2,500, notwithstanding an increase in the force of one captain, two lieutenants and twenty additional patrolmen. Thus is shown the economical management of the department. The total number of arrests made in apprehending offenders has been greatly increased under this administration, as is shown by the following totals taken from the annual reports of the department:

In 1893, it was.....	9,368
In 1894, it was.....	9,751
In 1895, it was.....	11,006
In 1896, it was.....	13,491
In 1897, it was.....	14,481
In 1898, it was.....	14,452

The administration has put forth every effort toward the suppression of vice and the violation of law. Comparisons on this score show that whereas the average number of arrests per year for violating the Sunday law under former administration was 22 per year, under the present administration it has been 66 per year, the number of arrests on this charge in 1898 being 119. The average number of arrests for gambling under the former administration was 12 per year, while under the present administration it has been 59 per year. The present administration has ordered the destruction of upwards of 20,000 pieces of gambling paraphernalia in comparison with nothing for former years.

The average number of arrests per year under the former administration for occupying houses of ill-fame was 20 per year, while under the present administration it has been 64.

The average number of arrests under the former administration for visiting houses of ill-fame was 70 per year, while under the present administration it has been 176 per year.

The average number of arrests to suppress prostitution during the last six years form an interesting comparison, being as follows:

1893	1894	1895	1896	1897	1898
29	16	50	110	206	230

The discipline of the force throughout the administration has been excellent. The character of the men appointed to positions has been above the average.

An innovation established by the head of the department has been the holding of annual inspections, at which the members of the Police Force appear in dress parade for the observation of the public.

Two new police stations have been erected during this administration, one at the corner of Willson and Perkins avenues, and one in the Fifth Precinct, on East Madison avenue, both within the appropriations made for the purpose. An important addition to the patrol system has been made by establishing a patrol station near the Tenth Precinct Police Station on Swiss street and the provision of twenty new signal boxes for this district.

IMPROVEMENTS AT THE MARKETS.

In the sub-division of Markets, important improvements have been made since the present administration took hold. Both the East Side and West Side Market houses have been repainted and extensively repaired. New gas fixtures and plumbing throughout have been provided at a cost of \$1,500. New windows have also been put in at a cost of \$1,000. The sanitary condition of the buildings has been considerably improved. By the laying of asphalt pavement on Sheriff street at the East Side Market, and the hiring of a man to devote his services three days in the week to work in that vicinity, it has been possible to keep the streets cleaner than for many years, improving the general condition of the neighborhood.

HEALTH DIVISION.

Strict attention has been given throughout this administration to improving the sanitary conditions of the city. With what success these efforts have been crowned the lessened death rate bears witness. Not only has the sanitary department exercised every possible precaution against disease by requiring citizens to observe the sanitary regulations, but the spread of epidemics has been skillfully checked and the force of physicians used their utmost endeavor to promote the public health.

The following table prepared in the Health Office shows the number of deaths for each year from 1893, and also the death rate per thousand based upon the estimated population:

Year.	Number of Deaths.	Death Rate per Thousand.
1893.....	5,261	18.15
1894.....	5,663	17.43
1895.....	5,167	15.89
1896.....	4,859	14.71
1897.....	5,007	14.30
1898.....	5,040	13.62

DEPARTMENT OF LAW.

An unusually large amount of litigation has occupied the attention of the law department during the present administration. The volume of the city's legal business is constantly increasing, requiring the limit of effort on the part of the city's attorneys. The total number of cases disposed of during the first two years of this administration was 189, and during the second two years 334, as compared with 131 for the two years preceding this administration. This, in addition to the large number of opinions, legal papers, ordinances and contracts which have been prepared and approved, shows an unprecedented volume of business in this department.

CONCLUSION.

In conclusion I desire to express the hope that the great improvements now under way and nearing completion may be speedily realized and their benefits to the city fully attained. As mayor, I have tried to serve the city faithfully, keeping the interests of all the people ever in view. In laying aside my official duties I have only to regret that greater results have not been accomplished and greater advantages gained.

Important problems confront our city and should be met in a patriotic spirit and with true civic pride. One of these problems is the question of municipal ownership of public utilities,—a subject which is eliciting most careful attention among our American municipalities to-day and is sure to be a lively issue in this city in the immediate future. The successful operation of our water works by the city indicates what may be done under like management of electric light and other public necessities. Likewise do the results accomplished under municipal ownership of street railway tracks in other cities prove what may be done under similar conditions in Cleveland. By the adoption of such a policy, and by this alone, will come, in my belief, freedom from corporate domination in city affairs and municipal elections, and will be removed a source of bribery and corruption which too often bring our legislative bodies into public contempt.

In my recent campaign I promulgated a declaration of principles which I will embody in this address as my recom-

mentation to the Council for our city's future welfare and that of our citizens.

First. I am in favor of the city owning and operating its own electric light plant and furnishing light for public use in the same manner as it controls and operates its water works. The city can operate its electric light plant, light its public streets, halls, offices, and buildings better and cheaper than any person or corporation can perform this service for it — a fact demonstrated by many other cities in this country and no longer being an experiment.

Second. During the past year the water works has earned a net profit of \$444,000 over and above its cost of operation. Believing that the present water takers should share in the benefits of this excess of income over operating expenses, the administration decided to recommend to the Council a uniform reduction of 10 per cent. on all water rents, to take effect April 1, 1899.

(Note.— This recommendation has, however, not been concurred in by the Council, political opponents of the administration voting it down.)

Third. I am opposed to the granting of franchises to street railway companies to lay tracks in any additional streets without adequate compensation to the city, and while I am mayor no franchise will be approved by me unless it complies with these conditions. I am opposed to the renewal of present street railway franchises prior to the date of the expiration of the shortest existing grant.

Fourth. The time has come for the city to regain possession of its streets so that they may be freed from corporate monopoly and the city may be able to control all rights and privileges therein. This result cannot be accomplished short of municipal ownership of street railway tracks, and until this can be obtained no franchise of any kind shall be granted with my consent unless it reserves the right and option to the city, at stated periods, to acquire by equitable and proper means, such ownership.

Fifth. Owing to the rapidly growing necessity for the use of space beneath the surface of the streets, and the value of such rights, and also for the purpose of preventing the

constant removing and tearing up of pavements, I am in favor of the city owning all conduits laid in the public streets and highways, and of leasing the same at a proper rental to companies that obtain the right to use them. I favor the introduction and passage of a bill providing for such action, if possible, at the next session of the General Assembly.

Sixth. I believe that in all public work eight hours should constitute a day's labor, and \$1.50 should be the lowest rate of wages per day. An ordinance passed by the City Council to that effect has been declared unconstitutional by the court. That this decision is correct, under existing laws, seems to be the opinion of courts and lawyers generally. I am, therefore, in favor of the passage of a uniform law at the next session of the Legislature providing that on all public work eight hours shall constitute a day's labor, and \$1.50 per day shall be the lowest rate of wages. A similar law passed by Congress with reference to government work has been sustained.

Seventh. The constant and increasing use of the bicycle as a means of travel makes it necessary that more attention shall be given than formerly to obtaining a smooth surface on the streets. To this end, and for the benefit of the public generally, the administration will pursue its present policy and improve as many streets as possible each year, using the best materials obtainable.

Such principles as the foregoing, I believe, should be adopted in the City of Cleveland, enabling it to keep pace with other large and progressive municipalities, affording advantages to the people greater than those now enjoyed, and presenting greater opportunities to all citizens.

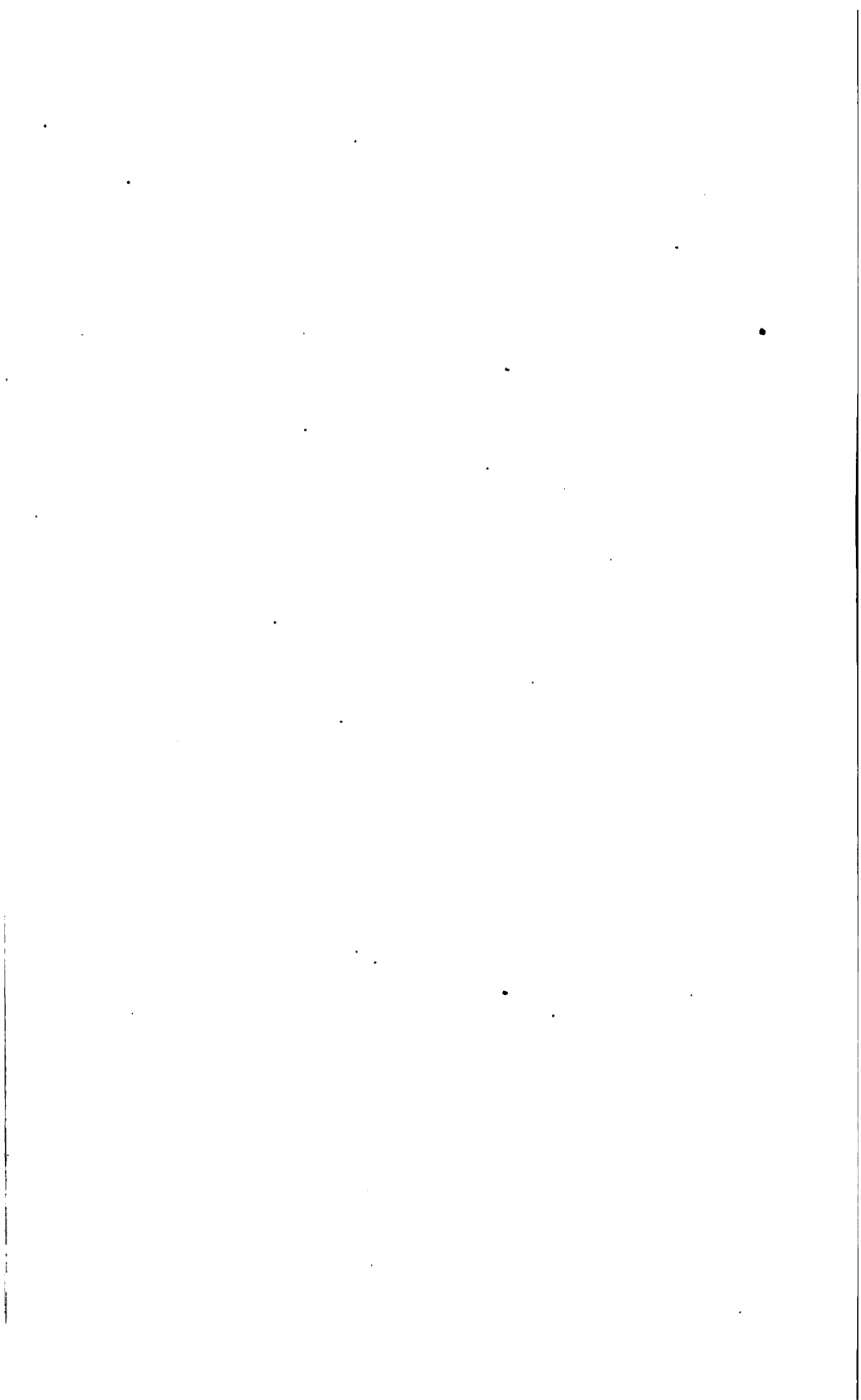
Respectfully submitted,

Robert E. McKisson

REPORT

OF THE

CITY CLERK.



Report of the City Clerk.

January 15th, 1899.

To the Council:

I have the honor to submit herewith brief tables showing the operations of the legislative department of the city for the year 1898. The proceedings of the Council in detail are recorded in the Council proceedings, which are annually bound, and contain a full and accurate record of each year's proceedings.

The year past has been marked by many important legislative enactments, by which means were provided for carrying on the large improvements under way and in contemplation.

The Council is especially to be congratulated upon its generosity toward the improvement of the lake front at the foot of Erie street, and for the extensive improvements in the Cuyahoga river. The bonds issued for various improvements have provided immense sums of money, which have enabled the executive department to carry forward needed improvements in the way of sewers, bridges, and in the harbor. Among the most important ordinances passed are those reducing the fare on certain lines of street railway from five to four cents. These ordinances have brought about litigation in the United States Court, that will eventually solve the contention which for years has kept the city officials in a turmoil.

The executive department still refuses to enforce the license law enacted by the legislature three years ago, and what licenses are now issued amount to but a fraction of what could be expected if that law were enforced. The city should be receiving from \$100,000 to \$150,000 per annum instead of the meager \$30,000 which it now collects.

The following brief tables enumerate transactions of this department.

Respectfully submitted,

HOWARD H. BURGESS,

City Clerk.

PROCEEDINGS OF COUNCIL.

Number of meetings held.....	52
Amount of business transacted:	
Petitions	306
Claims.....	44
Communications.....	1313
Ordinances introduced	621
Resolutions .....	.....
Streets	2998
Lighting	456
Miscellaneous	859
Miscellaneous papers.....	273
Total.....	6704
Ordinances passed, 486.	

CLAIMS FOR DAMAGES FOR STREET IMPROVEMENTS.

Berry street	\$400 00
Beta alley.....	600 00
Crosby street (22478).....	800 00
Coleman alley.....	800 00
Craw avenue	600 00
Denison avenue	253 17
Empress street	500 00
Garrettson street	300 00
High street.....	1,000 00
Kimmel street.....	1,782 00
Lake View avenue	500 00
McConnell street.....	21,350 00
Ocean street.....	330 00
Wilhelm street	200 00
Willson avenue bridge	22,000 00
Total.....	\$50,865 17

REPORT OF THE CITY CLERK.

LXXXVII

RECEIPTS FROM LICENSES, 1898.

Licenses were issued from this office during the year 1898 as follows:

	No.	Amount.
Building.....	3,352	\$ 6,316 85
Engineers	1,986	500 00
Peddlers	458	6,224 00
Gardeners	271	2,710 00
Exhibition.....	46	846 00
Express, etc.....	58	174 00
Pawnbrokers	19	950 00
Ferries	1	10 00
Street cars.....	752	7,520 00
Transient Dealers.....	3	105 00
Miscellaneous	1	1 00
Total.....	6,917	\$ 25,416 85

The above amount has been duly deposited in the City Treasury to the credit of the proper fund as follows:

To the credit of the Fire Fund	\$ 6,316 85
" " " General Fund	2,645 00
" " " Market Fund.....	8,934 00
" " " Street Fund.....	7,520 00
" " " Sanitary Fund	1 00
Total deposits.....	\$ 25,416 85

AMOUNT PAID FOR OFFICIAL ADVERTISING.

Showing each department and each newspaper.

	Executive.	Accounts.	Public Works.	Police.	Charities.	Legislative.	Fire.	Elections.	Parks.	Treasurer.	Total.
Leader	\$.....	\$.....	\$ 740 32	\$12 50	\$29 01	\$ 8,659 50	\$21 98	.....	\$ 130 65	\$ 225 15	\$ 9,819 06
Plain Dealer.....	108 50	.....	282 10	5 62	.....	9 50	.....	2 62	64 12	.....	472 46
World .....	.....	71 72	43 09	.....	.....	.....	33 15	3 00	.....	.....	160 86
Press .....	.....	.....	46 00	1 10	.....	.....	.....	.....	.....	.....	47 10
Volnost .....	.....	.....	53 50	.....	.....	.....	.....	.....	.....	.....	53 50
Recorder	94 79	.....	431 68	6 67	19 95	.....	30 11	.....	.....	.....	583 20
Waechter und Anzeiger }	58 70	.....	29 45	.....	.....	.....	.....	.....	.....	.....	89 5
Polonia .....	.....	.....	12 50	.....	.....	.....	.....	.....	.....	.....	12 50
Engineering News..	.....	.....	46 10	.....	.....	.....	.....	.....	8 60	.....	54 80
Illustrated Times..	.....	.....	20 00	.....	.....	.....	.....	.....	.....	.....	20 00
Total.....	\$ 261 99	\$71 72	\$ 1,704 84	\$25 89	\$48 96	\$ 8,669 00	\$85 19	\$ 5 62	\$ 203 37	\$ 225 15	\$ 11,301 73

REPORT
OF THE
CITY TREASURER.

Report of the City Treasurer.

To the Mayor and City Council.

GENTLEMEN:—Herewith I have the honor of submitting the transactions of this office for the fiscal year ending December 31, 1898. This report includes the various transactions in the funds of the Board of Education, and Fire and Police Pension Funds, as well as those of the city proper.

CHARLES W. CHASE,
City Treasurer.

STATEMENT SHOWING RECEIPTS AND DISBURSEMENTS
OF CITY FUNDS BY MONTHS.

	Receipts.	Disbursements.
January	\$ 924,990 39	\$ 155,436 08
February.....	437,665 92	411,278 87
March.....	1,108,253 95	428,463 75
April	319,962 85	517,568 31
May.....	608,594 23	675,560 52
June.....	233,104 42	439,913 59
July.....	1,120,435 42	476,826 95
August.....	1,169,923 94	633,866 32
September	635,559 17	994,970 67
October.....	620,730 66	923,822 53
November.....	381,053 21	473,566 02
December	110,946 09	691,603 12
Total	\$ 7,671,220 24	\$ 6,822,921 73
Excess of receipts over disbursements.....		\$ 848,298 51
Add balance on hand January 1st, 1898.....		1,968,126 37
Balance on hand and in depositories December 31st, 1898.....		\$ 2,836,424 88

DISTRIBUTED AS FOLLOWS:

In Depository No. 1 (Euclid Ave. National Bank).....	\$ 941,791 60
In Depository No. 2 (Dime Savings & Banking Co.).....	941,415 31
In Depository No. 3 (American Exchange National Bank).....	941,264 37
Total in depositories.....	\$ 2,824,471 28
In hands of Treasurer in cash, under Section 11 of Depository Law.....	\$ 2,000 00
In tax refunding and tax abatement certificates.....	9,953 60
Total.....	11,953 60
Total balance as above.....	\$ 2,836,424 88

REPORT OF THE CITY TREASURER.

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STATEMENT SHOWING DEPOSITS OF CITY FUNDS
DURING 1898.

	With Depository No. 1 (Euclid Ave. Na- tional Bank).	With Depository No. 2 (Dime Savings & Banking Co.)	With Depository No. 3.*
January.....	\$ 309,891 22	\$ 306,391 37	\$ 304,378 33
February.....	146,569 45	146,588 76	146,541 09
March.....	373,287 72	373,295 49	362,937 82
April.....	106,422 11	106,420 38	106,421 76
May.....	203,210 31	203,215 02	203,214 24
June.....	76,352 08	76,356 81	82,549 53
July.....	374,232 46	372,980 30	370,947 77
August.....	389,328 17	389,342 48	390,325 00
September.....	212,362 72	212,365 13	212,364 82
October.....	206,962 10	206,961 62	206,956 10
November.....	124,577 71	124,576 73	124,575 42
December.....	36,779 68	36,738 53	36,677 23
	<u>\$ 2,559,975 73</u>	<u>\$ 2,555,232 62</u>	<u>\$ 2,547,889 11</u>
Total ..	<u>\$ 7,663,097 46</u>		

*State National Bank to July 1st. American Exchange National Bank after June 30th.

CHECKS DRAWN.

	On No. 1.	On No. 2.	On No. 3.
January.....	\$ 41,938 55	\$ 54,774 55	\$ 58,722 98
February.....	142,047 87	133,348 68	135,882 32
March.....	142,262 39	145,553 93	140,647 43
April.....	168,250 96	179,580 76	169,761 59
May.....	233,135 04	218,006 44	224,419 04
June.....	151,164 35	153,225 63	135,523 61
July.....	149,338 73	163,711 73	163,776 49
August.....	214,728 72	209,888 71	209,248 89
September.....	344,503 60	297,465 63	353,001 44
October.....	295,572 95	341,004 30	287,245 28
November.....	156,748 93	157,645 89	159,191 20
December.....	230,194 89	232,800 56	228,807 67
	<u>\$ 2,269,886 98</u>	<u>\$ 2,266,806 81</u>	<u>\$ 2,266,227 94</u>
Total ..	<u>6,822,921 73</u>		

Excess deposits over withdrawals.....\$ 840,175 73

Add balance in depositories January 1st.....1,984,295 55

Balance in depositories at close of business December 31st.....\$ 2,824,471 28

STATEMENT SHOWING TRANSACTIONS IN TAX RE-
FUNDING AND TAX ABATEMENT CERTIFI-
CATES DURING 1898.

Certificates held by Treasurer January 1st, as cash.....	\$ 1,830 82
Paid by Treasurer during year.....	80,544 73
	<u>\$ 82,375 55</u>
Turned into Department of Accounts during year.....	72,421 95
Balance held as cash at close of business December 31st.....	\$ 9,953 60

Night soil, old curb stone, and water rent rebates, and
Police Court witness and jurors' fees, have been paid as
follows:

Night soil rebates.....	\$ 133 95
Old curb stone rebates.....	458 59
Water rent rebates.....	8,187 46
Police Court fees.....	1,119 50
Total.....	<u>\$ 9,899 50</u>

REPORT OF THE CITY TREASURER.

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STATEMENT SHOWING RECEIPTS AND DISBURSEMENTS OF BOARD OF EDUCATION FUNDS BY MONTHS.

	Receipts.	Disbursements.
January	\$ 111,037 92	\$ 38,463 21
February	110,148 75	130,912 55
March	496,566 01	191,454 77
April	1,228 11	44,426 81
May	103,077 95	123,792 93
June	102,325 37	202,218 39
July	151,542 05	50,469 11
August	562,303 51	125,860 92
September	262 94	65,597 06
October	11,118 18	146,971 42
November	297,943 77	138,144 56
December	12,905 51	207,479 62
Totals	\$ 1,990,460 07	\$ 1,465,291 35
Excess receipts over disbursements		\$ 525,168 72
Add balance on hand January 1st		38,452 95
Balance (in depositories) at close of business December 31st		\$ 563,621 67

DISTRIBUTED AS FOLLOWS:

In Depository No. 1 (Euclid Ave. National Bank)	\$ 188,988 02
In Depository No. 2 (Dime Savings & Banking Co.)	185,605 85
In Depository No. 3 (American Exchange Natl. Bank)	189,027 80
Balance as above	\$ 563,621 67

REPORT OF THE CITY TREASURER.

**STATEMENT SHOWING DEPOSITS OF FUNDS OF THE
BOARD OF EDUCATION DURING 1898.**

	With Depository No. 1 (Euclid Ave. Na- tional Bank.)	With Depository No. 2 (Dime Savings & Banking Co.)	With Depository No. 3.*
January	\$ 37,301 08	\$ 36,967 02	\$ 36,769 82
February.....	36,644 40	36,684 80	36,819 55
March.....	162,859 52	162,783 61	170,922 88
April.....	310 29	480 18	437 64
May.....	34,376 32	34,326 70	34,374 93
June.....	34,102 04	34,076 00	34,147 33
July.....	60,704 20	60,520 41	60,317 44
August.....	186,046 00	186,122 63	190,134 88
September	51 00	180 94	51 00
October.....	3,815 33	3,650 07	3,652 78
November.....	99,207 38	99,405 73	99,330 66
December.....	4,318 34	4,278 28	4,308 89
	<u>\$ 659,735 90</u>	<u>\$ 659,456 37</u>	<u>\$ 671,267 80</u>
Total			<u>\$ 1,990,460 07</u>

*State Nat'l Bank to July 1. American Exchange Nat'l Bank after June 30.

CHECKS DRAWN.

	On No. 1.	On No. 2.	On No. 3.
January.....	\$ 5,155 47	\$ 13,892 30	\$ 19,415 44
February.. ..	45,158 24	42,413 84	43,340 47
March.....	71,067 94	63,482 94	56,908 89
April.....	3,533 78	13,703 06	27,189 97
May.....	41,546 00	40,081 03	42,165 90
June.....	72,839 83	68,904 58	60,473 98
July	14,610 34	20,507 72	15,350 45
August.....	43,704 00	18,521 27	63,135 65
September	18,720 94	43,888 34	2,988 38
October.....	49,700 10	49,260 37	48,010 95
November	48,472 62	44,158 95	45,512 99
December.....	65,595 08	73,115 11	68,769 43
	<hr/>	<hr/>	<hr/>
Total	\$ 480,104 34	\$ 491,929 51	\$ 498,267 50
Excess deposits over withdrawals.....			\$ 525,168 72
Add balance in depositories January 1st.....			38,452 95
Balance in depositories at close of business December 31st			\$ 563,621 67

REPORT OF THE CITY TREASURER.

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All employes of the City, Board of Education, Public Library and pensioners of the Police and Fire Departments, have been paid in cash at this office on pay rolls of the various departments, as follows:

DEPARTMENT OF PUBLIC WORKS.

Bridges.....	\$ 90,731 10
Streets.....	112,747 89
Water Works officers, Pumping Station employes, etc.....	131,816 00
Water Works pipe-laying.....	85,090 24
Intercepting Sewer engineers, etc.....	12,354 00
Inspectors	46,823 19
Total.....	\$ 479,562 42

DEPARTMENT OF CHARITIES AND CORRECTION.

Workhouse.....	\$ 21,633 08
Infirmary.....	27,280 00
Cemeteries.....	\$ 20,809 80
" (new, West Park).....	6,602 59
	27,412 39
Total.....	\$ 76,305 47

DEPARTMENT OF POLICE.

Police force.....	\$ 368,577 49
Market.....	12,540 00
Sanitary.....	34,500 59
Total.....	\$ 415,618 08
Fire Department.....	397,714 97
Park Commission.....	132,802 66
Police Court.....	14,598 42
Board of Elections, judges and clerks.....	10,032 00
City General—Comprising Executive, Legislative, Legal, Auditing, Treasury, Secretary of Charities, Employment Bureau, Board of Elections, Justices, Engineers, Board of Equalisation, City Hall employes, etc.....	191,130 67
Total City proper.....	\$ 1,717,764 69

REPORT OF THE CITY TREASURER.

Brought Forward..... \$ 1,717,764 69

BOARD OF EDUCATION.

Teachers.....	\$ 823,517 52	
Officers and headquarter's employes.....	58,465 86	
Janitors, carpenters, etc.....	87,300 98	
Census enumerators.....	2,053 40	
		\$ 971,337 76
Public Library.....		46,151 49
Total, Board of Education		1,017,489 25

PENSION ROLLS.

Firemen's	\$ 27,896 93	
Police.....	30,656 04	
Total		58,552 97
Total of all pay rolls.....		\$ 2,793,806 91

REPORT OF THE CITY TREASURER.

XCIX

STATEMENT OF POLICE AND FIREMEN'S PENSION FUNDS FOR 1898.

POLICE PENSION FUND.

Balance on hand January 1, 1898.....	\$ 2,418 06
Received during the year.....	39,620 09
	<hr/>
Paid during year on Orders No. 686 to 709 inclusive—	\$ 42,038 15
To pensioners on pay rolls.....	\$ 28,069 37
For death benefits.....	1,500 00
For safe deposit box rent.....	5 00
Transferred to Savings & Trust Co.....	5,000 00
Transferred to Cleveland Trust Co.....	5,000 00
	<hr/>
Total disbursements.....	39,574 37
Balance at close of business December 31st.....	\$ 2,463 78

FIREMEN'S PENSION FUND.

Balance on hand January 1, 1898.....	\$ 30,013 26
Received during year.....	60,095 18
	<hr/>
Paid during year on Orders No. 104 to No. 118 inclusive—	\$ 96,108 44
To pensioners on pay rolls.....	\$ 27,896 93
For safe deposit box rent.....	20 00
For bonds.....	58,506 55
	<hr/>
Total disbursements.....	86,422 48
Balance at close of business December 31st.....	\$ 9,685 96

DEPARTMENT

OF

ACCOUNTS.

Annual Report of the City Auditor.

CLEVELAND, O., January 31, 1899.

Hon. R. E. McKisson, Mayor :

MY DEAR SIR:—As required by law, I herewith submit my annual report of the financial condition of the City of Cleveland January 1, 1899, and the transactions of the city for the fiscal year ending December 31, 1898, such report being set forth in tabulated form and arranged as shown in the "Table of Contents" directly following this communication.

In this connection I desire to call your attention especially to the following items of interest as shown in this report:

a. The tax levy for municipal purposes has again been *reduced* (Table No. 141) from \$12.60 per \$1,000 on the tax duplicate in 1897 to \$12.50 per \$1,000 in 1898. This is the lowest rate for municipal purposes as shown by said table since 1880, which is as far back as comparisons have been made.

b. There has been during the year an increase in assets (Table No. 146) of \$3,434,309.70. Deducting the increase of liabilities of \$1,463,528.33 makes a *net gain* in 1898 of \$1,970,781.37.

c. The excess of assets over all liabilities at the close of the year (Table No. 2) was \$30,604,359.97. This is an increase of \$1,970,781.37 over January 1, 1898, and an increase of \$6,145,472.52 over January 1, 1895.

d. In Table No. 139 it is shown that while the population of the city has increased some 20,000 during the year, and the business of the city has increased over \$360,000.00, *the operating expenses have been decreased* to the amount of \$7,452.44, while at the same time there has been an increase in the earnings (or income of the city other than from taxes or sale of bonds), amounting to \$261,766.02 (Table No. 140).

e. It is interesting to note the *increasing credit* of the city, as manifested in the sale of its securities. Table No. 19 shows the sales of bonds during the year, such sales being at far better prices than ever before in the history of the city, and on a par with the Eastern financial centers.

f. Another interesting fact to note is that while the total city debt has been somewhat increased, owing to the sale of bonds for parks and other great improvements, yet the annual interest charge (Tables Nos. 22 and 145) has been decreased \$13,538.16. This is for the reason that while the new bonds have been 4 per cent securities, the city has during the year paid off bonds and notes amounting to \$1,399,172.00 (Tables Nos. 33 and 34), which draw interest at 5 and 6 per cent.

g. Tables Nos. 137 to 146 of this report, giving comparisons for the last nineteen years of expenses, income, valuations, tax levies, receipts from various sources, assets and liabilities, and other data, should prove of considerable interest and value.

h. It is also worthy of special notice that while, on the basis of recent sales of securities, the city is paying interest on its outstanding obligations on a basis of $3\frac{1}{8}$ per cent (Table No. 19), it is receiving interest from the depositary banks on its average daily balances at the rate of 3.366 per cent. (Table No. 14), a state of good fortune unequalled by any other city in the country.

As to the work performed by the Department of Accounts, there have been during the year certified and forwarded orders for goods to the number of 15,732; bills for same have been duly audited and approved, and warrants in payment numbering 13,722 and amounting to \$6,628,360.20, have been drawn on the City Treasurer; while Receiving Warrants accounting for the Receipt of \$7,563,190.00 have been entered and placed to credit of proper source of income.

The rule has been adopted in the payment of claims that all bills reaching the Auditor's office, properly approved, before 3 P. M. shall be paid the following morning, thus putting the City's business on a cash basis. It is estimated that the cash discounts and reductions in prices obtained on account of immediate payments thus established will exceed \$30,000 per annum.

Respectfully submitted.

H. L. ROSSITER,
City Auditor.

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DEPARTMENT OF ACCOUNTS.

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THE STATE OF OHIO, } ss.
COUNTY OF CUYAHOGA. }

H. L. Rossiter, being first duly sworn, says that he is the duly appointed and qualified City Auditor of the City of Cleveland, and that the matters and facts set forth in the accompanying annual report are true, as he verily believes.

H. L. ROSSITER.

Sworn to before me by said H. L. Rossiter and by him subscribed in my presence, this first day of February, A. D. 1899.

[SEAL.]

ALBERT F. CROSBY,
Notary Public.

Officers and Employes of the Department of Accounts.

H. L. ROSSITER, Auditor.
ALBERT F. CROSBY, Deputy Auditor.
GEO. C. ANGIER, General Account.
LUCY B. COLLINS, Stenographer.
EDW. D. FOSTER, Messenger.
JOHN DAYKIN, Chief Clerk, Disbursing Division.
D. E. WINN, Accountant, Disbursing Division.
CHAS. F. LOWE, Accountant, Disbursing Division.
S. G. BROOKER, Book-keeper, Disbursing Division.
CHAS. D. CAMPBELL, Book-keeper, Disbursing Division.
JOHN K. ROBINSON, Book-keeper, Disbursing Division.
FRED. J. STARKWELL, JR., Clerk, Disbursing Division.
ED. W. DISSETTE, Claim Agent.
CLARA WHEELER, Bond Clerk.
B. MCCREARY, Storekeeper.
E. A. STOCKWELL, Draughtsman and Chief Cl'k, Tax Division.
WM. CRASTON, Assistant, Tax Division.
BRUNO LOMNITZ, Assistant, Tax Division.
CARRIE M. KING, Assistant, Tax Division.

PART I.

GENERAL ANALYSES.

GENERAL ANALYSES.

TABLE No. 1.

CLASSIFIED ANALYSIS OF RECEIPTS, DISBURSEMENTS,
ASSETS AND LIABILITIES.

For itemized analysis, see table No. 2.)
(For analysis according to fundamental purposes, see table No. 3.)
(For analysis according to funds, see tables Nos. 4 and 5.)

Cash balance January 1st, 1898.....		\$ 4,144,947 27
RECEIPTS.		
Taxes	\$3,140,768 49	
Earnings.....	1,506,275 53	
Investments	33,637 98	
Total ordinary receipts.....		\$ 4,680,682 00
Donations.....	\$ 500 00	
Sale of assets.....	15,000 00	
Loans.....	2,867,008 00	
Total extraordinary receipts.....		2,882,508 00
Total receipts		7,563,190 00
Total to be accounted for.....		\$11,708,137 27
DISBURSEMENTS.		
Operating expenses	\$2,690,430 65	
Furniture and fixtures.....	82,115 21	
Investments.....	34,284 59	
Total ordinary disbursements.....		\$ 2,806,830 45
Permanent improvements.....	\$2,418,050 08	
Loans.....	1,408,479 67	
Total extraordinary disbursements		3,821,529 75
Total disbursements		6,628,360 20
Cash balance January 1, 1899.....		\$ 5,079,777 07
ASSETS.		
Cash	\$ 5,079,777 07	
Furniture and fixtures.....	1,360,344 96	
Permanent improvements	36,561,702 65	
Investments	61,006 40	
Total assets.....		\$ 43,062,831 08
LIABILITIES.		
City debt.....	\$12,435,810 00	
Deposits.....	22,661 11	
Total liabilities		12,458,471 11
Excess of Assets.....		\$ 30,604,359 97

TABLE NO. 2.
ITEMIZED ANALYSIS OF RECEIPTS, DISBURSEMENTS,
ASSETS AND LIABILITIES.

For classified analysis, see table No. 1. For analysis according to fundamental purposes, see table No. 3. For analysis according to funds, see tables Nos. 4 and 5. For greater detail, see tables indicated after each item below.

Cash in Treasury January 1, 1898.....	\$ 1,988,126 37	
Cash in hands of Sinking Fund Commissioners January 1, 1898.....	2,156,820 90	
Total cash.....		\$ 4,144,947 27
RECEIPTS.		
Received from general tax (table No. 6).....	\$ 1,881,077 96	
Received from liquor tax (table No. 7).....	403,984 64	
Received from cigarette tax (table No. 8).....	2,510 27	
Received from sewer district tax (table No. 9).....	197,712 06	
Received from special assessments (table No. 10).....	569,923 01	
Received from licenses and franchises (table No. 11).....	85,560 53	
Total taxes.....		3,140,768 49
Received from rents (table No. 12).....	\$ 47,146 81	
Received from fees (table No. 13).....	750,829 23	
Received from interest (table No. 14).....	600,730 17	
Received from sales (table No. 15).....	107,569 32	
Total earnings.....		1,506,275 53
Received from return of capital in manufacturing and mercantile business (table No. 16).....	\$ 33,637 98	
Total investments.....		33,637 98
Received from gifts (table No. 17).....	\$ 500 00	
Total donations.....		500 00
Received from sale of land (table No. 18).....	\$ 15,000 00	
Total sale of assets.....		15,000 00
Received from sale of bonds (table No. 19).....	\$ 2,030,000 00	
Received from sale of notes (table No. 20).....	836,490 00	
Received from deposits (table No. 21).....	518 00	
Total loans.....		2,867,008 00
Total to be accounted for.....		\$11,708,137 27
DISBURSEMENTS.		
Paid fixed charges and salaries (table No. 22).....	\$1,857,059 89	
Paid maintenance (table No. 23).....	833,370 76	
Total operating expenses.....		\$ 2,690,430 65
Paid for office furniture (table No. 24).....	\$ 1,896 13	
Paid for institution furniture (table No. 25).....	3,892 64	
Paid for mach'y and implements (table No. 26).....	76,326 44	
Total furniture and fixtures.....		82,115 21
Paid capital into manufacturing and mercantile business (table No. 27).....	\$ 34,224 59	
Total investments.....		34,224 59
Paid for land (table No. 28).....	\$ 59,596 49	
Paid for buildings (table No. 29).....	139,702 18	
Paid for public ornaments (table No. 30).....	420,263 93	
Paid for public highways (table No. 31).....	712,421 31	
Paid for sewer and water systems (table No. 32).....	1,086,067 17	
Total permanent improvements.....		2,418,060 08
Paid to redeem bonds (table No. 33).....	\$1,086,070 00	
Paid to redeem notes (table No. 34).....	363,102 00	
Paid return of deposits (table No. 35).....	4,307 67	
Total loans.....		1,408,479 67
Total disbursements.....		6,628,360 20
Cash in Treasury January 1, 1899.....	\$ 2,836,424 88	
Cash in hands of Sinking Fund Commissioners January 1, 1899.....	2,243,352 19	
Total cash (balance).....		\$ 5,079,777 07

DEPARTMENT OF ACCOUNTS.

TABLE NO. 2—Continued.

ASSETS.		
Cash in City Treasury (table No. 36).....	\$ 2,838,424 88	
Cash in hands Sinking Fund Commissioners (table No. 36).....	2,243,362 19	
Total cash		\$ 5,079,777 07
Office furniture (table No. 37).....	\$ 63,658 12	
Institution furniture (table No. 38).....	140,315 17	
Machinery and implements (table No. 39).....	1,156,371 67	
Total furniture and fixtures		1,360,344 96
Land, buildings and improvements (table No. 40).....	\$ 9,952,732 93	
Public highways (table No. 41).....	13,615,696 16	
Sewer and water systems (table No. 42).....	12,993,333 66	
Total permanent improvements		36,561,762 65
Manufacturing and mercantile enterprises (table No. 43).....	\$ 61,006 40	
Total investments		61,006 40
Total assets		\$43,062,831 08
LIABILITIES.		
Bonds outstanding (tables Nos. 44, 45, 46, 47 and 48)	\$11,300,430 00	
Notes outstanding (tables Nos. 44 and 49).....	1,135,380 00	
Deposits outstanding (table No. 51).....	22,661 11	
Total liabilities		12,458,471 11
Excess of assets		\$30,604,359 97

TABLE NO. 4.
ANALYSIS OF RECEIPTS AND DISBURSEMENTS ACCORDING TO FUNDS.

For classified analysis, see table No. 1; itemized analysis, table No. 2.

For analysis according to fundamental purposes, see table No. 3.

No.	Name of Fund.	See Table No.	Cash on hand Jan. 1, 1898.	Receipts.	Total.	Disbursements.	Cash on hand Jan. 1, 1899.
1	General	52	\$ 8,307 62	\$ 280,707 58	\$ 289,105 20	\$ 287,761 88	\$ 1,348 32
2	Bridge	63	174,055 00	872,281 09	1,046,317 09	900,465 25	145,851 84
3	Street	66	2,411 22	155,464 96	157,876 18	156,396 45	989 73
4	Water	68	152,308 17	1,002,371 41	1,154,679 58	923,386 63	381,312 95
5	Park	71	402,787 51	597,089 83	999,877 34	646,849 67	353,027 67
6	Police	74	3,724 67	390,226 42	393,951 09	392,438 40	1,512 69
7	Police Court	77	3,522 28	22,022 01	25,544 29	24,664 53	879 76
8	Market	79	905 53	50,531 99	51,437 52	51,415 89	21 63
9	Sanitary	82	2,316 89	140,854 67	143,171 56	41,851 29	101,320 27
10	Cemetery	84	5,882 43	47,109 06	52,991 49	51,610 37	1,381 12
11	House of Correction	87	24,319 43	77,150 82	101,470 25	76,342 11	25,128 14
12	Infirmary	89	21,403 65	141,175 19	162,578 84	148,993 14	13,585 70
13	Fire	91	19,625 21	467,586 41	487,211 62	465,486 83	21,724 79
14	Dredging	94	5,761 30	27,520 04	33,281 34	25,871 46	7,409 88

DEPARTMENT OF ACCOUNTS.

TABLE No. 4—Continued.

No.	Name of Fund.	See Table No.	Cash on hand Jan. 1, 1898.	Receipts.	Total.	Disbursements.	Cash on hand Jan. 1, 1899.
15	Lighting.....	96	\$ 16,832 53	\$ 211,740 39	\$ 228,572 92	\$ 210,431 77	\$ 18,141 15
16	Street Intersections.....	98	31,704 78	64,659 47	96,364 25	96,986 61	377 64
17	Paving.....	99	48,334 83	58,292 07	106,626 90	106,128 20	498 70
18	Interest.....	100	66,597 65	387,415 69	404,013 24	253,052 27	150,960 97
19	General Sinking.....	102	2,751 50	359,750 19	362,501 69	347,813 44	14,688 25
20	Viaduct Sinking.....	104	443,693 37	335,806 56	779,299 93	551,000 00	188,299 93
21	1862 Sinking.....	107	1,442,324 70	254,503 39	1,696,828 09	.....	1,696,828 09
22	New City Hall Sinking.....	109	271,627 60	77,448 90	349,076 50	.....	349,076 50
23	Art Gallery.....	111	5,000 00	.....	.....	.....	5,000 00
24	Monroe Trust.....	112	.....	505 90	505 90	5 90	500 00
25	City Storeroom.....	113	1,308 94	5,637 96	7,036 92	6,030 83	1,006 09
26	Inspection.....	114	308 79	4,014 50	4,323 29	4,221 00	102 29
27	Unclaimed Money.....	115	247 46	7,037 88	7,285 14	7,158 43	126 71
28	Night Soil.....	116	310 56	17,996 10	18,206 66	17,286 57	920 09
29	Police Contingent.....	117	8,505 45	4,523 92	13,029 37	11,465 82	1,563 55
30	Sidewalk.....	118	283 11	2,748 54	3,031 65	1,314 49	1,717 16
31	River and Harbor.....	119	35,166 27	250,000 00	285,166 27	7,254 47	277,914 80

TABLE NO. 4—Concluded.

No.	Name of Fund.	See Table No.	Cash on hand Jan. 1, 1888.	Receipts.	Total.	Disbursements.	Cash on hand Jan. 1, 1889.
32	Intercepting Sewer.....	120	\$ 142,190 59	\$ 240,000 00	\$ 382,190 59	\$ 160,184 63	\$ 222,005 96
33	Sewer Districts.....	121	208,480 67	474,256 70	682,737 37	442,018 91	240,718 46
34	Street Improvements.....	124	591,863 56	1,816,215 24	2,408,078 80	1,514,177 56	893,901 24
	Total for City.....		4,144,947 27	8,804,414 60	12,949,361 87	7,899,584 80	5,079,777 07
	Transfers.....			1,241,224 60	1,241,224 60	1,241,224 60	.....
	Net for City.....	1 and 2	\$ 4,144,947 27	\$ 7,563,190 00	\$ 11,708,137 27	6,628,360 20	5,079,777 07

From Market Fund (table 79).....		\$ 31,000 00	To Bridge Fund (table 68).....	\$ 692,410 00
" House of Cor. " " 87).....	" 87)	6,000 00	" Street " " 56)	15,000 00
" Street Inters. " " 98)	" 98)	78,582 06	" Police " " 74)	29,500 00
" Paving " " 99)	" 99)	90,434 23	" Cemetery " " 84)	6,000 00
" Interest " " 100)	" 100)	130,760 00	" Fire " " 91)	12,350 00
" Viaduct Sink. " " 104)	" 104)	570,000 00	" Street Inters. " " 98)	4,899 34
" Uncl'm'd Mon. " " 115)	" 115)	7,019 22	" Paving " " 99)	1,890 73
" Police Court " " 117)	" 117)	8,500 00	" Gen'l Sink'g " " 102)	4,641 23
" Inter. Sewer " " 120)	" 120)	36,000 00	" Sewer Dist. " " 121)	26,438 55
" Sewer Dist. " " 121)	" 121)	-273,929 09	" Street Imp. " " 124)	448,054 75
		\$ 1,241,224 60		\$ 1,241,224 60

NOTE.—The \$1,241,224.60 transfers as above deducted are as follows:

DEPARTMENT OF ACCOUNTS.

TABLE No. 5.
ANALYSIS OF ASSETS AND LIABILITIES ACCORDING TO FUNDS.

For classified analysis, see table No. 1. Itemized analysis, table No. 2. For analysis according to fundamental purposes, see table No. 3.

No.	Name of Fund.	See Table No.	Cash.	Furniture and Fixtures.	Permanent Improvements.	Investments.	Total Assets.	Total Liabilities.
1	General.....	52	\$ 1,543 32	\$ 47,652 61	\$.....	\$.....	\$ 48,985 93	\$.....
2	Bridge.....	63	145,851 84	664 40	4,228,242 77	.....	4,374,759 01	1,951,000 00
3	Street.....	66	939 73	3,896 64	.....	.....	4,836 67	.....
4	Water.....	68	331,312 95	758,766 43	8,199,716 77	.....	9,289,796 15	2,404,661 11
5	Park.....	71	853,027 67	19,181 13	6,433,093 24	.....	6,805,302 04	2,000,000 00
6	Police.....	74	1,512 69	67,491 97	414,927 76	.....	483,922 42	120,000 00
7	Police Court.....	77	879 76	2,295 30	.....	.....	3,165 06	.....
8	Market.....	79	21 63	1,515 04	166,021 11	.....	167,857 78	.....
9	Sanitary.....	82	101,820 27	2,411 93	4,065 22	.....	107,797 42	.....
10	Cemetery.....	84	1,381 12	10,791 67	291,798 39	.....	303,966 18	.....
11	House of Correction.....	87	25,128 14	34,996 67	315,912 99	58,012 49	432,052 29	.....
12	Infirmary.....	89	13,595 70	29,346 24	673,394 33	.....	716,316 32	.....
13	Fire.....	91	21,724 79	331,053 93	434,136 68	.....	886,915 40	247,000 00
14	Dredging.....	94	7,409 88	.....	.....	.....	7,409 88	.....
15	Lighting.....	96	18,141 15	18,141 15
16	Street Intersections.....	98	377 64	377 64

DEPARTMENT OF ACCOUNTS.

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TABLE No. 5—Continued.

No.	Name of Fund.	See Table No.	Cash.	Furniture and Fixtures.	Permanent Improvements.	Investments.	Total Assets.	Total Liabilities.
17	Paving.....	99	\$ 498 70	\$.....	\$.....	\$.....	\$ 498 70	\$.....
18	Interest.....	100	150,980 97	.....	.....	.....	150,980 97	.....
19	General Sinking.....	102	14,688 25	.....	.....	.....	14,688 25	2,840,960 00
20	Viaduct Sinking.....	104	198,289 93	.....	.....	.....	198,289 93	615,000 00
21	1893 Sinking.....	107	1,696,828 09	.....	.....	.....	1,696,828 09	.....
22	New City Hall Sinking.....	109	949,076 50	.....	.....	.....	949,076 50	.....
23	Art Gallery.....	111	5,000 00	.....	.....	.....	5,000 00	5,000 00
24	Monroe Trust.....	112	500 00	.....	.....	.....	500 00	.....
25	City Store-room.....	113	1,006 09	.....	.....	2,993 91	4,000 00	.....
26	Inspection.....	114	102 29	.....	.....	.....	102 29	.....
27	Unclaimed Money.....	115	126 71	.....	.....	.....	126 71	.....
28	Night Soil.....	116	920 09	.....	.....	.....	920 09	.....
29	Police Contingent.....	117	1,563 55	.....	.....	.....	1,563 55	.....
30	Sidewalk.....	118	1,717 16	.....	.....	.....	1,717 16	.....
31	River and Harbor.....	119	277,914 80	.....	497,085 20	.....	775,000 00	.....
32	Intercepting Sewer.....	120	222,005 96	.....	191,964 04	.....	414,000 00	.....
33	Sewer Districts.....	121	240,718 46	.....	.....	.....	240,718 46	1,062,000 00
34	Street Improvements.....	124	868,901 24	.....	14,713,329 10	.....	15,607,230 34	1,212,860 00
	Total.....	1 and 2	\$ 5,079,777 07	\$ 1,360,344 96	\$ 836,561,702 65	\$ 62,338 40	\$ 43,064,163 08	\$ 12,458,471 11

PART II.

ANALYSES IN DETAIL.

TABLE No. 6.
RECEIPTS IN DETAIL.
GENERAL TAX LEVY.

(For condensed statement of taxes, see table No. 2.)

(For comparison with former years, see tables Nos. 141 and 142.)

NOTE.—This money is collected under authority of Title XII., Div. 9, Chapter 1 of the Revised Statutes of Ohio. The Treasurer of Cuyahoga County is the collector.

The value of all property within the City of Cleveland, as listed for taxation in 1897, was \$141,915,430.00, upon which the City Council, by Ordinance No. 15,842, levied a tax of \$13.10 per \$1,000, and the Board of Park Commissioners levied a tax of \$0.50 per \$1,000 for interest on park bonds; a total of \$13.60 per \$1,000. \$141,915,430.00 x .0136 = levy of	\$1,980,049 85
Add delinquent taxes on real estate brought forward from the duplicate of previous year.....	\$68,993 70
Add net collection of delinquent taxes on personal property.....	3,925 08
Add levy on omitted property, and property whose valuation has been increased by Board of Equalization, placed upon the tax list by the County Auditor, under authority of sections 1039-1040 R. S.....	48,390 79
Add penalties imposed for non-payment, under authority of section 2844 R. S.....	3,963 41
Add one-half of county levy for county bridges collected within the city (§ 2824 R. S.).....	33,946 68
Total additions.....	159,219 66
Total levy	\$2,089,269 51
Deduct tax abated by County Auditor on account of property whose valuation has been decreased by Board of Equalization (§ 1039 R. S.)	\$ 12,164 34
Deduct tax refunded by County Auditor on account of errors in duplicate (§ 1038 R. S.).....	3,973 94
Deduct County Treasurer's fees for collection (77 O. L. 187, 24, and 88 O. L. 47, §§ 1-10)	8,848 19
Deduct tax inquisitor's fees (R. S. §§ 2903-11).....	9,969 74
Deduct cost of advertising delinquent tax sale.....	1,148 78
Deduct amount reserved for Firemen's and Police Pension Funds (88 O. L. 108, § 4).....	36,681 57
Deduct taxes remaining unpaid at August settlement, 1898	136,404 99
Total deductions.....	208,191 55
Net receipts from general levy	\$1,881,077 96

NOTE.—As required by the law and ordinance cited above, the said \$1,881,077.96 was distributed to the city's funds as follows:

General Fund (table No. 53).....	\$115,445 71	Dredging Fund (table No. 95)...	\$ 13,581 85
Bridge " " " 64).....	77,406 59	Lighting " " " 97)...	210,518 63
Street " " " 69).....	120,878 43	St. Inters'ns " " " 98)...	59,760 13
Park " " " 72).....	136,518 48	Paving " " " 99)...	54,327 39
Police " " " 75).....	214,568 19	Gen. Sinking " " " 103)...	115,445 71
Sanitary " " " 83).....	38,029 17	Viaduct " " " 105)...	129,027 56
Fire " " " 92).....	446,342 79	Interest " " " 101)...	149,400 33

TABLE No. 7.
RECEIPTS IN DETAIL.

LIQUOR TAX.

(For condensed statement of taxes, see table No. 2.)
(For comparison with former years, see table No. 145.)

NOTE.—This money is collected by the County Treasurer, under authority of an act of the General Assembly of the State of Ohio, passed May 14, 1886, entitled "An act to provide against the evils resulting from traffic in intoxicating liquors," (83 O. L. 157), as amended February 20, 1896, (92 O. L. 34), which act provides for the assessing of a tax of \$350 per annum upon each place where the business of traffic in intoxicating liquors is carried on—\$105 for the use of the State of Ohio, and \$245 for the use of the City.

Balance unpaid at July, 1897, settlement (see report of City Auditor for 1897, table No. 7).....	\$328,530 00
Assessment of 1897.....	610,400 00
Add subsequent additions on account of new business started.....	86,824 08
Add penalties for non-payment.....	2,744 88
Add net collection on real estate duplicate	321 98
	<hr/> \$1,028,820 44
Deduct tax abated on account of business discontinued	\$ 90,249 07
Deduct money refunded on account of business discontinued.....	30,860 14
Deduct County Treasurer's fees for collection (83 O. L. 157, § 4).....	4,323 59
Deduct Auditor's fees (83 O. L. 157)	5,812 00
Deduct amount delinquent and carried to real estate duplicate	6,152 72
Deduct amount remaining unpaid at settlement	314,440 00
	<hr/> 451,837 52
Net collection.....	\$576,982 92
Deduct State of Ohio's portion (3-10) (92 O. L. 34) on all but \$321.98 collection on real estate duplicate.....	172,998 28
	<hr/>
City of Cleveland's portion.....	\$403,984 64

NOTE.—In accordance with the law above cited, said \$403,984.64 was distributed to the City's funds as follows:

General fund (5-14) (table No. 53).....	\$144,280 28
Police " (5-14) (table No. 75).....	144,280 28
Infirmary " (4-14) (table No. 90).....	115,424 18

TABLE No. 8.
RECEIPTS IN DETAIL.
CIGARETTE TAX.

(For condensed statement of taxes, see table No. 2.)
(For comparison with former years, see table No. 145.)

NOTE.—This money is collected by the County Treasurer, under authority of an act entitled "An act to provide against the evils resulting from the traffic in cigarettes, cigarette wrappers, and packages containing the same, and to prevent the sale of the same, cigars and tobacco, to minors, as therein provided," passed May 18th, 1894, (91 O. L. 311) which assesses a tax of \$30.00 per annum on the wholesale traffic in cigarettes, and \$15.00 per annum on the retail traffic in same. One-half of said tax for the use of the State of Ohio, and one-half for the use of the City, to be divided equally between the "Police" Fund and the "Infirmary" Fund.

Assessment for 1897.....	\$4,995 00
Balance unpaid on 1896 tax, see Auditor's report for 1897 (table No. 8) ...	36 00
Add subsequent additions on account of new businesses started.....	565 37
Add penalties for non-payment.....	4 50
	<hr/> \$5,600 87
Deduct tax abated on account of business discontinued.....	\$ 94 90
Deduct money refunded on account of business discontinued.....	360 89
Deduct Treasurer's fees for collection (91 O. L. 311).....	38 35
Deduct Auditor's fees for collection (91 O. L. 311).....	61 00
Deduct tax remaining unpaid at August, 1898, settlement.....	25 20
	<hr/> 580 34
Net collection ...	\$5,020 53
Deduct State of Ohio's portion (91 O. L. 311)— $\frac{1}{2}$	2,510 26
City of Cleveland's portion.....	<hr/> \$2,510 27

NOTE.—In accordance with the law above cited, said \$2,510.27 was distributed to the City's funds, as follows:

Police fund ($\frac{1}{2}$) (table No. 75).....	\$1,255 14
Infirmary fund ($\frac{1}{2}$) (table No. 90).....	1,255 13

TABLE No. 9.
RECEIPTS IN DETAIL.
SEWER DISTRICT TAX.

(For condensed statement of taxes, see table No. 2.)

(For comparison with former years, see table No. 143.)

(For statement of Sewer Districts and levy for 1898, see tables Nos. 134 and 136.)

NOTE.—This money is collected under authority of Section 2683 of the Revised Statutes and "An act to provide for the construction and repair of sewers in cities of the second grade of the first class." (80 O. L. 143.) The County Treasurer is the collector. For the purpose of building main or trunk sewers the city is divided into sewer districts. The boundaries of a district are fixed as nearly as may be by the limits of the territory drained by its main sewer. Upon all the property, *real* and *personal*, within a district, a tax (not exceeding \$3.00 on each \$1,000 of valuation) is levied for the purpose of keeping the sewers in the district clean and in good repair, and constructing such main sewers as may be necessary.

Levy of 1897, as per Ordinance No. 16238.....	\$207,100 39
Add delinquent tax of former years.....	9,600 67
	<hr/> \$216,701 06
Deduct County Treasurer's fees (7-10 of 1 mill) and County Auditor's fees (5-10 of 1 mill) for collection (77 O. L. 137, 24).....	\$ 2,410 43
Deduct tax remaining unpaid.....	15,832 27
	<hr/> 18,242 70
Net collection through County Treasurer	\$198,458 36
Less abatements paid through City Treasurer.....	746 28
	<hr/> \$197,712 08

NOTE.—In accordance with the law and ordinance above cited, said \$197,712.08 was distributed to the several sewer district funds, as follows (see table No. 123):

District No.	Rate of Levy per \$1,000.	Amount of Tax Received.	District No.	Rate of Levy per \$1,000.	Amount of Tax Received.
1		\$ 3 36	12	\$3 00	\$ 8,335 74
2			13	3 00	7,555 22
3	\$1 00	29,519 86	14	2 00	5,615 88
4	3 00	14,520 34	15	3 00	51,697 34
5	3 00	13,488 10	16	3 00	9,117 26
6			17	3 00	8,479 49
7	2 00	26,096 47	18	3 00	5,489 42
8	1 00	367 11	19	3 00	996 34
9			20	3 00	4,824 03
10	3 00	2,070 10	21	3 00	908 98
11	3 00	8,251 44	Commercial	1 00	376 65

TABLE NO. 10.
RECEIPTS IN DETAIL.
SPECIAL ASSESSMENTS.

(For condensed statement of taxes, see table No. 2.)
(For comparison with former years, see table No. 137.)

NOTE.—This money is collected under authority of Title 12, Division 7, Chapter 4, of the Revised Statutes of Ohio, and by virtue of several ordinances passed by the city from time to time, providing for the grading, paving, draining, opening, sewerage or otherwise improving of the city's streets and public highways. The assessment is usually confined to the property immediately abutting upon the improvement, and is laid either according to the front foot of the abutting property or according to the benefits conferred by the improvement, the latter being determined by assessing boards duly designated for the purpose. Either the City or County Treasurer may collect.

Total assessments of 1897.....	\$619,692 54
Add unpaid tax of 1896 (see Auditor's report 1897, table 10).....	86,145 02
Add additions on account of errors, etc.....	2,197 42
	\$708,034 98
Deduct County Treasurer's fees (7-10 of 1 mill) and County Auditor's fees (5-10 of 1 mill) for collection (77 O. L. 137, §4)	\$ 7,494 94
Deduct tax remaining unpaid on August, 1897, settlement.....	85,805 84
	93,300 78
Net collections through County Treasurer.....	\$614,734 20
Add collections made by City Treasurer.....	47,700 34
	\$662,434 54
Deduct tax abated and refunded through City Treasurer.....	92,511 53
Net receipts from Special Assessments.....	\$569,923 01

NOTE.—In accordance with the law and ordinances above cited, said \$569,923.01 was distributed to the City's funds as follows: General Fund (table No. 53), \$440.74; Bridge Fund (table No. 64), \$7,500.00; Park Fund (table No. 72), \$1,996.35; Dredging Fund (table No. 95), \$13,938.19; Paving Fund (table No. 99), \$2,033.95; Unclaimed Money Fund (table No. 115), \$7,037.68; Sidewalk Fund (table No. 118), \$2,748.54; Sewer District Funds (table No. 121), \$2,557.07; Street Improvement Fund (table No. 124), \$631,670.49.

TABLE No. 11.

RECEIPTS IN DETAIL.

LICENSES AND FRANCHISES.

(For condensed statement of taxes, see table No. 2.)

NOTE.—This money is collected under authority of several ordinances of the city. The City Clerk, the Clerk of Board of Park Commissioners, the Director of Police, the City Auditor, and the Director of Public Works are the collectors.

From 1956 stationary engineers and firemen for annual licenses, 50 cents for first issue and 25 cents for re-issue. (Revised Ordinances, § 388).....	\$ 560 00
From 45 licenses issued to proprietors of theatres, circuses and other exhibitions. (Revised Ordinances, § 393).....	836 00
From 58 annual licenses to owners of express wagons and moving vans (Revised Ordinances, § 243), at \$3.00 each.....	174 00
From 19 annual licenses issued to pawnbrokers (Revised Ordinances, § 775), at \$50.00 each.....	950 00
From 1 annual license issued to ferry keeper (Revised Ordinance, § 410), at \$10.00 each.....	10 00
From 3 licenses issued to transient dealers. (Ordinance No. 3139).....	105 00
From 752 licenses for street cars in daily operation (Revised Ordinances, § 994), at \$10.00 per annum.....	7,520 00
From sale of privileges at Wade Park.....	450 00
From sale of privileges at Gordon Park.....	200 00
From sale of privileges at Edgewater Park.....	1,335 00
From 458 licenses issued to peddlers. (Revised Ordinances, §§ 778-781).....	6,224 00
From 271 licenses issued to gardeners (Revised Ordinances, § 782), at \$10.00 each.....	2,710 00
From 1674 annual licenses to milk peddlers (Revised Ordinances, § 144), at \$1.00 each.....	1,674 00
From 94 annual licenses issued giving permission to slaughter (Revised Ordinances, § 122), at \$10.00 each.....	940 00
From 1 license to keeper of livery stable (Revised Ordinances, § 121), at \$1.00 each...	1 00
From 5 licenses to master plumbers (92 O. L. 263), at \$5.00 each.....	25 00
From 2 renewals of master plumbers' licenses, at 50c. each.....	1 00
From Cleveland Gas Light and Coke Co., 6½ per cent. of gross receipts from sale of gas. (Ordinance No. 2376).....	50,394 29
From People's Gas Light Co., 6¼ per cent. of gross receipts from sale of gas. (Ordinance No. 2376).....	11,451 24
Total receipts from licenses.....	\$ 85,560 53

NOTE.—As required by Ordinances cited, the above \$85,560.53 was placed to the credit of the city's funds as follows: General Fund (table No. 53), \$2,635.00; Street Fund (table No. 67), 7,520.00; Park Fund (table No. 72), \$1,985.00; Market Fund (table No. 80), \$8,934.00; Sanitary Fund (table No. 83), \$2,641.00; New City Hall Sinking Fund (table No. 107), \$61,845.53.

TABLE NO. 12.
RECEIPTS IN DETAIL.

RENTS.

(For condensed statement of earnings, see table No. 2.)

NOTE.—This money is collected under authority of ordinances duly passed by the City Council. The Directors of Police, Public Works, Secretary of the Board of Park Commissioners, and the City Auditor are collectors.

From tenants for use of rooms and stores in City Hall.....	\$ 4,907 98
From tenants for use of docks owned by City.....	210 00
From Cleveland Electric Railway Co., for use of Central Viaduct.....	1,500 00
From Cleveland Electric Railway Co., for use of Kingsbury Viaduct.....	300 00
From Cleveland Electric Railway Co., for use of Superior Viaduct.....	300 00
From Cleveland City Railway Co., for use of Superior Viaduct.....	752 00
From tenants for use of land belonging to various bridges (see table No. 64).....	1,840 00
From tenants for use of houses on park property.....	84 00
From market house tenants for use of stalls, benches, curbs, etc. (table No. 80).....	37,252 83
Total from rents.....	\$ 47,146 81

NOTE.—The above \$47,146.81 was placed to the credit of the City's funds as follows: General Fund (table No. 53), \$5,117.98; Bridge Fund (table No. 64), \$4,692.00; Park Fund (table No. 72), \$84.00; Market Fund (table No. 80), \$37,252.83.

TABLE No. 13.
RECEIPTS IN DETAIL.
FEES.

(For condensed statement of earnings, see table No. 2.)

NOTE.—This money is collected under due authority of law and ordinance fixing the charges for services rendered by city officials.

From costs of court and marriage fees collected by Justices of the Peace, viz:	
From Justice E. H. Bohm	\$ 1,008 35
From Justice R. T. Morrow	1,903 34
From Justice E. R. Griswold	1,853 59
From Justice E. Hitchens	1,210 13
From Justice J. Brown	2,842 33
From Justice J. D. Palmer	595 94
From Justice L. F. Bauder	1,562 16
Total	\$ 10,876 44
From permit to build telephone conduit	200 00
From 2,206 permits to plumbers to make water connections, at \$1.50 each	3,309 00
From 2,600 permits to plumbers to make sewer connections, at \$1.50 each	3,900 00
From 317 permits to plumbers to open streets for sewer repairs	1,944 69
From fees from water takers for water delivered (table No. 69)	642,019 80
From 2,270 fees for connections to main water pipes, at \$5.00	11,350 00
From fees for re-tapping water pipes	1,521 20
From charges of keepers of city scales for December (to Police Fund)	293 75
From charges for inspecting and sealing weights and measures for month of December (to Police Fund)	245 95
From fines and costs imposed by Police Judge, collected by Police Court Clerk	20,570 45
From fines and costs imposed by Police Judge, collected by Work-house Superintendent	1,451 56
From charges of keepers of city scales, for January to December (to Market Fund)	2,019 00
From charges for inspecting and sealing weights and measures, for January to December (to Market Fund)	2,325 41
From charges for searching records and issuing certificates of death	169 00
From charges for searching records and issuing certificates of birth	13 00
From charges for interments, disinterments, vault use, and care and improvement of graves (table No. 85)	12,711 00
From fines and costs imposed by Police Judge, collected by and for benefit of House of Correction	1,390 85
From charges of Building Inspector for examination of plans and inspection of construction of buildings	6,316 85
From charges for the examination and inspection of steam boilers	545 00
From various Railroad Co.'s charges for lighting tracks and track intersections	1,221 76
From charges for inspecting relaying of pavements when removed and relaid by private parties	4,014 50
From charges for removal of night soil	17,896 10
From Officers' and Marshal's fees for witnessing and serving writs for Police Court	4,523 92
Total from fees	\$ 750,829 23

NOTE.—The above \$750,829.23 was placed to the credit of the City's funds as follows: General Fund (table No. 53), \$11,076.44; Street Fund (table No. 67), \$9,153.69; Water Fund (table No. 69), \$654,891.00; Police Fund (table No. 75), \$639.70; Police Court Fund (table No. 78), \$22,022.01; Market Fund (table No. 80), \$4,344.41; Sanitary Fund (table No. 83), \$182.00; Cemetery Fund (table No. 85), \$12,711.00; House of Correction Fund (table No. 88), \$1,390.85; Fire Fund (table No. 92), \$6,861.85; Lighting Fund (table No. 96), \$1,221.76; Inspection Fund (table No. 114), \$4,014.50; Night Soil Fund (table No. 116), \$17,896.10; Police Contingent Fund (table No. 117), \$4,523.92.

TABLE No. 14.
RECEIPTS IN DETAIL.
INTEREST.

NOTE.—Under the provisions of the "Depository Law" (86, O. L. 197), as amended (91, O. L. 253), contracts were entered into for the care of the money of City of Cleveland, with the Euclid Avenue National Bank, the Dime Savings and Banking Co., and the State National Bank, they being the highest and best bidders for same, wherein said banks agree to pay respectively 3 51-100 per cent., 3 33-100 per cent., and 2 96-100 per cent. interest on average daily balances on deposit in such banks. In addition to their general credit, each of such banks gives bond in the sum of \$1,000,000.00 for the safe keeping of such money.

STATEMENT SHOWING AVERAGE DAILY BALANCES.

Month.	Euclid Ave. Nat. Bank.		Dime Sav. and Bkg. Co.		State National Bank.	
	Average Balance.	Interest.	Average Balance.	Interest.	Average Balance.	Interest.
1897.						
July.....	\$1,007,903 87	\$3,004 65	\$ 996,663 35	\$2,818 78	\$ 993,669 61	\$2,489 62
August.....	1,066,964 30	3,180 72	1,057,292 02	2,990 25	1,061,416 13	2,634 30
September.....	1,093,854 40	3,155 70	1,090,292 75	2,984 12	1,074,220 86	2,604 62
October.....	874,280 18	2,606 31	863,430 71	2,441 97	854,690 35	2,141 41
November.....	912,129 69	2,631 43	882,540 02	2,415 50	876,546 34	2,125 32
December.....	803,298 99	2,394 71	788,631 90	2,240 42	774,434 70	1,940 33
1898.						
January.....	847,259 78	2,525 76	837,796 83	2,369 47	832,095 12	2,084 80
February.....	971,547 02	2,616 00	960,348 20	2,453 23	951,188 20	2,152 55
March.....	1,003,895 13	2,992 71	991,023 79	2,802 83	979,538 85	2,454 22
April.....	1,120,898 59	3,233 72	1,107,916 54	3,032 35	1,098,746 10	2,664 08
May.....	1,142,479 76	3,405 94	1,132,001 38	3,201 55	1,124,512 35	2,817 44
June.....	1,034,470 91	2,984 38	1,021,772 26	2,796 53	1,008,135 42	2,444 38
Totals.....		34,732 03		32,537 05		28,553 07

Received from Depositories as above.....	\$ 95,822 15
Received from premiums on various lots of bonds sold during the year (see table No. 19).....	218,216 36
NOTE.—Accrued interest received on delivery of such bonds (\$17,932.49) (see table No. 19) is deducted from disbursements on account of interest (table No. 22).	
Received from interest on "Monroe Fund" \$500.00, from time of bequest to delivery to city.....	5 90
NOTE.—For full details regarding this fund see table No. 17.	
Received from dividends and interest on stocks and bonds in the hands of the Sinking Fund Commissioners to the credit of the "Viaduct Sinking Fund" (see table No. 132).....	16,579 00
Received from dividends and interest on stocks and bonds in the hands of the Sinking Fund Commissioners to the credit of the "Sinking Fund of 1862" (see table No. 132).....	254,503 39
Received from interest on bonds and notes in the hands of the Sinking Fund Commissioners to the credit of the "City Hall Sinking Fund" (see table No. 132).....	15,603 37
Total receipts from interest.....	\$600,730 17

NOTE.—The above \$600,730.17 was placed to the credit of the City's funds as follows: Water Fund (table No. 69), \$41,731.00; Park Fund (table No. 71), \$57,080.00; Interest Fund (table No. 100), \$188,015.26; General Sinking Fund (table No. 102), \$14,663.25; Viaduct Sinking Fund (table No. 104), \$16,579.00; 1862 Sinking Fund (table No. 106), \$254,503.39; City Hall Sinking Fund (table No. 107), \$15,603.37; Monroe Trust Fund (table No. 112), \$5.90; Sewer District Funds (table No. 121), \$12,549.00.

TABLE No. 15.
RECEIPTS IN DETAIL.
SALES.

(For condensed statement of earnings, see table No. 2.)

NOTE.—This money is received to reimburse the city for labor and supplies furnished individuals.

From reimbursements to General Fund on account of printing bills.....	\$ 11,801 48
From bills rendered various parties for labor and material in repairing bridges and bridge property.....	250 50
From bills rendered various parties for labor and material in repairing street pavements opened for sewer and water connections and plumbing, etc.....	2,912 84
From bills rendered various parties for labor and material used in laying and repairing private water pipes and connections.....	5,231 41
From sale of sand and old barn from park property.....	126 00
From sale of old scrap iron, etc., from police stations and market houses.....	58 91
From sales of lots in city cemeteries.....	13,398 06
From sale of vaccine from Health officer.....	2 50
From board and transportation of United States and State of Ohio prisoners and miscellaneous sales at Workhouse.....	21,405 88
From board of non-resident and quasi-paupers at Infirmary.....	23,649 84
From sales of produce raised on Infirmary farm.....	846 04
From sales of old zinc, copper, brass, iron, windows, desks, beds, fire hose, old engine, paper, etc., from fire stations.....	1,531 77
From profits on sales of brushes at House of Correction.....	25,022 59
Total receipts from sales.....	\$106,237 32

NOTE.—The above \$106,237.32 was placed to the credit of the City's funds as follows: General Fund (table No. 53), \$11,801.48; Bridge Fund (table No. 64), \$250.50; Street Fund (table No. 67), \$2,912.84; Water Fund (table No. 69), \$5,231.41; Park Fund (table No. 72), \$126.00; Police Fund (Table No. 75), \$58.16; Market Fund (table No. 80), .75; Sanitary Fund (table No. 83), \$2.50; Cemetery Fund (table No. 85), \$13,398.06; House of Correction Fund (table No. 88), \$46,427.97; Infirmary Fund (table No. 90), \$24,495.88; Fire Fund (table No. 92), \$1,531.77.

TABLE NO. 16.

RECEIPTS IN DETAIL.

CAPITAL FROM MANUFACTURING AND MERCANTILE
ENTERPRISES.

(For condensed statement of investments, see table No. 2.)

From brush business at House of Correction (table No. 88).....	\$29,332 00
From stationery and supply business at the City Store Room (table No. 109).....	5,637 96
Total	\$34,969 96

NOTE.—The above \$34,969.96 was distributed to the City's funds as follows:

House of Correction Fund (see table No. 88).....	\$29,332 00
City Store Room Fund (see table No. 109).....	5,637.96

TABLE NO. 17.
RECEIPTS IN DETAIL.
DONATIONS.

From Mary E. Monroe, bequest, to be held in trust, and interest on same used to take care of grave in Woodland Cemetery.....	\$ 500 00
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NOTE.—The above amount was placed to credit of "Monroe Trust Fund" (table No. 112).

TABLE NO. 18.
RECEIPTS IN DETAIL.
SALE OF LAND.

Received from Infirmary part payment of price of Lorain Cemetery, turned over to Infirmary by Res. No. 17659.....	\$ 15,000 00
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NOTE.—The above \$15,000.00 was placed to credit of City's funds as follows, viz: Cemetery
Fund (table No. 85), \$15,000.00.

TABLE No. 19.
RECEIPTS IN DETAIL.
SALE OF BONDS.

Date when Bids Received.	Name of Purchaser.	Ordinance Authorizing.	Class of Bonds.	Nos. of Bonds.	Rate.	Draw Interest From.	Mature.	Date of Delivery.	Accrued Interest.	Premium.	Rate of Interest Paid by City.	Principal.
Jan. 5, 1898	Ill. Trust & Sav. Bank, Chic.	685	Park.....	9234-9633	4	Oct. 1, 1897	Apr. 1, 1928	Jan. 15, 1898	\$ 4,602 75	\$ 57,080 00	3.25%	\$ 400,000 00
Feb. 7, 1898	R. L. Day & Co., Boston.....	10414	Will'tt Bri.	9634-9723	4	Oct. 1, 1897	Apr. 1, 1926	Feb. 17, 1898	1,370 87	12,977 11	3.25%	90,000 00
.....	Sinking Fund Commissioners	20536	Via. renew.	9724-9913	4	Jun. 1, 1898	Sep. 1, 1899	May 24, 1898	.....	.....	4.00%	190,000 00
Jun. 20, 1898	R. L. Day & Co., Boston.....	20633-7	Sewer Dist.	10154-10388	4	Apr. 1, 1898	Oct. 1, 1908	July 2, 1898	2,343 56	12,549 00	3.36%	285,000 00
Jun. 27, 1898	Whann & Schlesinger, N. Y.	14522	Inter. Sew.	9914-10153	4	Apr. 1, 1898	Oct. 1, 1926	July 9, 1898	2,577 55	30,086 40	3.31%	240,000 00
July 11, 1898	Farson, Leach & Co., Chicago	11553	Garbage { Funded { Debt { (renew.)	6849-6948	4	Apr. 1, 1898	Oct. 1, 1916	July 23, 1898	1,238 36	9,987 00	3.25%	100,000 00
Aug 15, 1898	Whann & Schlesinger, N. Y.	19515	Water ...	10389-10613	4	Oct. 1, 1898	Oct. 1, 1908	Sept. 2, 1898	.....	14,683 25	3.22%	225,000 00
Aug 22, 1898	Estabrook & Co., Boston.....	11444	Water ...	6050-6349	4	Apr. 1, 1898	Oct. 1, 1926	Sept. 8, 1898	5,244 45	41,731 00	3.25%	300,000 00
Oct. 10, 1898	W. J. Hayes & Sons, Clev'd	20929	Riv. & Har.	10614-10663	4	Oct. 1, 1898	Oct. 1, 1928	Oct. 20, 1898	554 95	39,192 00	3.18%	250,000 00
	Total.....								\$ 17,982 49	\$ 218,216 36		\$2,080,000 00

TABLE NO. 21.

RECEIPTS IN DETAIL.

DEPOSITS.

(For condensed statement of loans, see table No. 2.)

NOTE.—This money is collected under a rule of the Water Works Division, requiring a deposit of \$1.00 for each foot of pipe laid at the request of property owners in streets where the estimated revenue therefrom will not pay 8 per cent. per annum upon the cost of the pipe. When the revenue reaches an amount equal to 8 per cent. per annum the deposit is returned. During 1898 deposits were received as follows:

Depositor.	Street.	Amount.
J. D. Cleveland.....	Fairfield.....	\$518 00
Total Deposit received.....		\$518 00

TABLE No. 22.
DISBURSEMENTS IN DETAIL.
FIXED CHARGES AND SALARIES.

(For condensed statement of operating expenses, see table No. 2.)

Paid	6 mo. interest on \$	400,000 Viaduct	6%	Bonds \$	12,000 00
"	12 "	" " 170,000 Viaduct	6%	"	10,200 00
"	12 "	" " 125,000 Viaduct	5%	"	6,250 00
"	12 "	" " 150,000 Viaduct	4%	"	6,000 00
"	3 "	" " 190,000 Viaduct	4%	"	1,900 00
"	12 "	" " 85,000 Kingsbury	5%	"	4,250 00
"	12 "	" " 60,000 Kingsbury	4½%	"	2,700 00
"	12 "	" " 100,000 Kingsbury	4%	"	4,000 00
"	12 "	" " 392,000 Elevated Road	5%	"	19,100 00
"	12 "	" " 510,000 Elevated Road	4%	"	20,400 00
"	12 "	" " 20,000 Pearl Bridge	5%	"	1,000 00
"	12 "	" " 35,000 Pearl Bridge	4%	"	1,400 00
"	12 "	" " 285,000 Bridge Repair	5%	"	14,250 00
"	12 "	" " 135,000 Bridge Repair	4%	"	5,400 00
"	12 "	" " 339,000 Bridge	4%	"	13,560 00
"	12 "	" " 11,000 Canal	6%	"	660 00
"	12 "	" " 150,000 Canal	5%	"	7,500 00
"	12 "	" " 247,000 Fire	5%	"	12,350 00
"	12 "	" " 787,000 Funded Debt	5%	"	39,350 00
"	12 "	" " 217,000 Funded Debt	4½%	"	9,765 00
"	12 "	" " 539,000 Funded Debt	4%	"	21,560 00
"	12 "	" " 310,000 Interceptor	4%	"	12,400 00
"	6 "	" " 240,000 Interceptor	4%	"	4,800 00
"	12 "	" " 2,000,000 Park	4%	"	80,000 00
"	12 "	" " 20,000 Police	5%	"	1,000 00
"	12 "	" " 100,000 Police	4%	"	4,000 00
"	12 "	" " 500,000 River, Harbor	4%	"	20,000 00
"	6 "	" " 100,000 Garbage	4%	"	2,000 00
"	12 "	" " 11,650 Brooklyn	6%	"	699 00
"	6 "	" " 5,000 Street Improvement	4%	"	100 00
"	12 "	" " 25,000 Street Improvement	4%	"	1,000 00
"	12 "	" " 70,600 Street Improvement	6%	"	4,236 00
"	6 "	" " 235,000 Sewer District	4%	"	4,700 00
"	6 "	" " 2,000 Sewer District	5%	"	50 00
"	12 "	" " 29,000 Sewer District	4½%	"	1,305 00
"	12 "	" " 252,000 Sewer District	5%	"	12,600 00
"	12 "	" " 638,000 Sewer District	4%	"	25,520 00
"	12 "	" " 100,000 Water	3.65	"	3,650 00
"	12 "	" " 400,000 Water	4½%	"	18,000 00
"	12 "	" " 287,000 Water	6%	"	17,220 00
"	12 "	" " 1,300,000 Water	4%	"	52,000 00
"	6 "	" " 300,000 Water	4%	"	6,000 00
"	6-12 "	" " 1,135,380 Street Improvement	5% Notes		41,191 09

Total Interest on City Debt..... \$ 526,066 09

Less accrued Interest received (table No. 19)..... 17,932 49

Net Interest Paid..... \$ 508,133 60

Carried forward..... \$ 508,133 60

TABLE NO. 22—Continued.

<i>Brought Forward</i>		\$ 508,123 60
Paid for rent of City Hall.....	\$ 36,000 00	
Paid for rents of offices and telephones.....	2,094 67	
Paid for taxes on City Hall and other property.....	3,523 77	
Total Rent and Taxes.....		\$ 41,618 44
Paid for storage and care of Election Booths from January 1 to July 1 (County pays for last half of year).....	\$ 1,647 28	
Paid for officers and marshal's fees (to Police Pension Fund) and for witness fees at Police Court.....	7,464 45	
Total Fees.....		9,111 73
Paid salaries of Mayor and Board of Control.....	\$ 34,989 20	
Paid salaries of Deputy and Assistants in Public Works office.....	6,000 00	
Paid salaries of Chief Engineer and Assistants and Clerks.....	61,679 36	
Paid salaries of Harbor Master and Assistant.....	1,440 00	
Paid salaries of Deputy and Accountants in Depart. of Accounts	15,920 00	
Paid salaries of Assistants in Law Department.....	10,000 00	
Paid salary of Secretary in Department of Charities.....	1,000 00	
Paid salaries of Councilmen.....	5,560 00	
Paid salaries of City Clerk and Assistants.....	9,457 82	
Paid salaries of City Treasurer and Assistants.....	8,615 00	
Paid salaries of Justice of the Peace and Clerks.....	14,400 00	
Total salaries of City Officials.....	\$ 169,011 38	
Paid salaries of Police Officers and Patrolmen.....	\$ 368,577 49	
Paid salaries of Sanitary Police and Officers.....	36,775 59	
Paid salaries of Park Police and Officers.....	36,167 67	
Paid salaries of Market Superintendent and Police.....	12,540 00	
Paid salaries of Cemetery Superintendent and Assistants.....	6,532 00	
Paid salaries of House of Correction Supt. and Assistants.....	17,903 76	
Paid salaries of Infirmary Superintendent and Assistants.....	27,254 34	
Paid salaries of Fire Service Officers and Firemen.....	397,714 97	
Total salaries of City Officers.....	\$ 902,465 82	
Paid partial salaries of Board of Elections Members.....	\$ 3,359 96	
Paid partial salaries of Board of Elections Clerk and Assistants...	3,300 31	
Paid partial salaries of Election Officers.....	10,384 00	
Paid partial salaries of Board of Equalization Members.....	3,653 58	
Paid partial salaries of Employment Bureau.....	1,800 00	
Paid partial salaries of Police Judge and Police Court Clerk and Assistants.....	14,813 87	
Total salaries of Quasi-Municipal Officials.....	\$ 37,311 72	
Paid salaries of Janitors and Employees of City Hall.....	\$ 7,150 08	
Paid salaries of Janitors of Armories.....	3,420 00	
Paid salaries of Bridge Superintendents and Assistants.....	65,629 98	
Paid salaries of Street Superintendents and Assistants.....	3,300 00	
Paid salaries of Water Works Superintendents and Assistants and Clerks in Water Works office.....	109,907 14	
Total salaries of City Employees.....	\$ 189,407 20	
Total salaries.....		1,298,196 12
Total Fixed Charges and Salaries.....		\$1,857,069 89

TABLE NO. 23.
DISBURSEMENTS IN DETAIL.
MAINTENANCE.

(For condensed statement of operating expenses, see table No. 2.)

Paid for lighting streets in the corporation.....	\$210,431 77
Paid for dredging the Cuyahoga river.....	25,871 46
Paid for cleaning the streets and markets, parks and catch-basins, and for removal of garbage and night-soil, and for cleaning and repairing sewers	186,552 97
Paid for labor and material used in maintenance of the parks and cemeteries.....	48,914 66
Paid for care of prisoners and paupers in House of Correction, Infirmary and City Hospital, and for care of injured and victims of accident and epidemic.....	101,652 40
Paid for repairs to buildings, machinery, fire engines and apparatus, bridges, paved streets, water pipes, etc	64,052 85
Paid for fuel and light in the various departments.....	77,948 83
Paid for care of horses and repair of wagons and harness in the several departments	19,676 44
Paid for commission to N. Y. Depositary for paying City bonds and coupons	815 33
Paid for costs of court and judgments and other contingent expenses	22,221 81
Paid for sewer and water connections and for tapping water pipes.....	16,755 68
Paid for secret service (Police Contingent).....	2,965 82
Paid for official advertising and serving notices	14,798 90
Paid for stationery and office supplies in the various departments	19,947 79
Paid for materials and supplies for use in Street and Water Works departments, and for bridges, parks, police and fire stations, markets and cemeteries, infirmary and health departments.....	20,764 05
Total Maintenance	\$633,370 76

TABLE NO. 24.

DISBURSEMENTS IN DETAIL.

OFFICE FURNITURE.

(For condensed statement of furniture and fixtures, see table No. 2.)

Paid for desks, chairs, office tables, filing cases, typewriters, law books and carpets for the various departments.....	\$1,896 13
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TABLE NO. 25.

DISBURSEMENTS IN DETAIL.

INSTITUTION FURNITURE.

(For condensed statement of furniture and fixtures, see table No. 2.)

Paid for chairs, stoves and furniture for bridge tenders.....	\$ 7 85
Paid for furniture for pumping stations.....	820 00
Paid for equipping police stations.....	607 39
Paid for scales and furniture for markets.....	65 10
Paid for iron settees and fixtures for cemeteries.....	32 47
Paid for cells, bedsteads and furniture for House of Correction.....	226 47
Paid for hospital and dining-room furniture and fixtures for Infirmary ..	1,542 02
Paid for equipping fire stations.....	591 34
Total.....	\$3,892 64

TABLE No. 26.

DISBURSEMENTS IN DETAIL.

MACHINERY AND IMPLEMENTS.

(For condensed statement of furniture and fixtures, see table No. 2.)

Paid for boilers, engines, pumps and machinery for water works pumping stations..	\$68,136 28
Paid for picks, shovels and implements for park employes	1,910 53
Paid for patrol apparatus.....	608 65
Paid for horses, wagons and implements for use at Infirmary.....	460 85
Paid for fire service apparatus	1,868 50
Paid for horses, harness and wagons for fire service	3,341 65
Total.....	\$76,326 44

TABLE NO. 27.

DISBURSEMENTS IN DETAIL.

PAYMENT OF CAPITAL INTO MANUFACTURING AND
MERCANTILE ENTERPRISES.

(For condensed statement of investments, see table No. 2.)

Paid for raw material and miscellaneous supplies for brush business at House of Correction. (See table No. 89.)	\$28,253 76
Paid for stationery and miscellaneous supplies for the stock in the City store room. (See table No. 113.)	6,030 83
Total	\$34,284 59

TABLE NO. 28.

DISBURSEMENTS IN DETAIL.

LAND.

Paid Cleveland Ship Building Co. for land for Center street bridge	\$14,500 00
Paid Henry J. Weitz and others for land for Willett street bridge.....	2,500 00
Paid for abstract and recording of deed for same	69 60
Paid F. & T. Vodrak for land for Martin-Praha bridge.....	500 00
Paid Aug. Hohn and others for land for Martin-Praha bridge	1,000 00
Paid Elizabeth Frischnecht for land for Martin-Praha bridge	800 00
Paid Broadway S. & L. Co. for land for Martin-Praha bridge.....	300 00
Paid Matey Teslick for land for Martin-Praha bridge	208 00
Paid Jos. Hlavacek for land for Martin-Praha bridge	92 00
Paid for abstracts and recording deeds for same.....	4 30
Paid Jos. and Anna Norotny for land for Martin-Praha bridge.....	1,284 00
Paid Frank and Mary Bilek for land for Martin-Praha bridge	530 00
Paid Jos. and Mary Adanuc for land for Martin-Praha bridge	675 00
Paid Ernsteine Wieman for land for Martin-Praha bridge	945 00
Paid Josefa and Jus Masek for land for Martin-Praha bridge	1,050 00
Paid A. and K. Schmielgel for land for Martin-Praha bridge	530 00
Paid Columbia Brewing Co. for land for Martin-Praha bridge.....	1,000 00
Paid Erie R'y for right of way on land for Martin-Praha bridge.....	100 00
Paid for abstracts and recording deeds for same.....	98 60
Paid C. & P. R'y Co. for land for Willow street bridge.....	3,000 00
Paid for recording deed of same	3 75
Paid Carrie L. Pierre for land for Warner road bridge.	300 00
Paid F. K. Reed and others for land for Warner road bridge	300 00
Paid Mrs. F. A. Doering for land for Willson avenue bridge	\$2,000 00
Less amount refunded for same by N. Y. C. & St. L. R'y	1,500 00
	500 00
Paid Jas. C. Block, insolvency judge, award and costs for land for Willson avenue bridge.....	1,883 24
Paid T. S. Knight and others, testimony in above case.	105 00
Paid Mary E. Pratt for land to be added to Fairmount Park	250 00
Paid W. P. and L. O. Newell for land to be added to Edgewater Park.....	1,200 00
Paid W. H. Barriess for land to be added to Wade Park	500 00
Paid Maria Torry and others for land to be added to Wade Park.....	100 00
Paid C. F. and P. R. Storer for land to be added to Brooklyn Park	200 00
Paid Board of Education of Newburgh hamlet for land to be added to Garfield Park	2,250 00
Paid H. B. Weber for land to be added to West Park Cemetery	721 00
Paid for abstract for same	43 00
Paid J. C. Block, insolvency judge, award and costs for land to be added to West Park Cemetery.....	4,753 00
Paid Cemetery Fund balance of amount on Lorain Heights property, to be used for Infirmary purposes.....	15,000 00
Paid Karl and Theresa Belringer for land to be used for Detention Hospital	2,300 00
Total for Land.....	\$59,596 49

TABLE NO. 29.
DISBURSEMENTS IN DETAIL.
BUILDINGS.

(For condensed statement of permanent improvements, see table No. 2.)

Paid on contracts on Division street pumping station	\$ 17,849 93
Paid for buildings on Park property.....	93,395 11
Paid for buildings on House of Correction property	3,000 00
Paid on contracts for Children's Hospital.....	13,347 80
Paid for completion of work on fire stations.....	12,069 34
<hr/>	
Total for buildings.....	\$139,702 18

TABLE NO. 30.

DISBURSEMENTS IN DETAIL.

PUBLIC ORNAMENTS.

(For condensed statement of permanent improvements, see table No. 2.)

Paid for fountains and fences in parks and cemeteries	\$ 1,356 88
Paid for monuments and statues.....	
Paid for grading, paving and road improving, in parks.....	395,664 14
Paid for grading and improving in cemeteries.....	23,242 91
Total	\$430,263 93

TABLE No. 31.
DISBURSEMENTS IN DETAIL.
PUBLIC HIGHWAYS.

(For condensed statement of permanent improvements, see table No. 2.)

Paid for construction and reconstruction of bridges	\$ 94,788 91
Paid for grading and paving crosswalks.....	5,334 78
Paid for grading, paving and improving in front of City property	1,889 48
Paid for paving of street intersections	17,404 55
Paid for grading and laying sidewalks.....	1,314 49
Paid for street pavements.....	514,726 45
Paid for street gradings and curbing, openings and widenings, including land acquired for same.....	60,708 18
Paid on river and harbor improvements, (see table No. 119).....	7,254 47
Total	\$712,421 31

DEPARTMENT OF ACCOUNTS.

TABLE NO. 32.

DISBURSEMENTS IN DETAIL.

SEWER AND WATER SYSTEMS.

(For condensed statement of permanent improvements, see table No. 2.)

Paid for extension of water pipe system (see table No. 69)..	\$ 439,031 29
Paid for extension of sewer pipe system, including land and rights of way acquired for same (see tables Nos. 120 and 127.)	647,035 88
Total	\$1,086,067 17

TABLE NO. 33.
DISBURSEMENTS IN DETAIL.
BONDS REDEEMED.

Class of Bonds.	Rate.	Numbers.	Date of Issue.	Maturity.	Amount.
Superior Viaduct.....	6	1-100	1878	Mar. 1, 1898.....	\$ 100,000 00
Walworth Opening.....	4	42-86	1890	Apr. 1, 1898.....	5,000 00
Sewer District No. 17.....	5	2829-2830	1894	Apr. 1, 1898.....	2,000 00
Superior Viaduct.....	6	1-300	1878	June 1, 1898.....	300,000 00
Street Improvement.....	6	Brooklyn.....	1893	Aug. 1, 1898.....	2,000 00
Funded Debt.....	4	1-117	1886	Sept. 1, 1898.....	117,000 00
Brooklyn General.....	6	Brooklyn.....	1889	Sept. 1, 1898.....	4,700 00
Street Improvement.....	6	Brooklyn.....	1891	Sept. 1, 1898.....	7,370 00
Street Improvement.....	6	Brooklyn.....	1892	Oct. 1, 1898.....	3,000 00
Street Improvement.....	4	87-91	1890	Oct. 1, 1898.....	5,000 00
Funded Debt.....	4½	1721-1937	1892	Oct. 1, 1898.....	217,000 00
Sewer District No. 3.....	5	3589-3623	1888	Oct. 1, 1898.....	35,000 00
Sewer District No. 5.....	5	5274	1893	Oct. 1, 1898.....	10,000 00
Sewer District No. 10.....	5	574	1891	Oct. 1, 1898.....	1,000 00
Sewer District No. 14.....	5	630-631	1891	Oct. 1, 1898.....	2,000 00
Sewer District No. 15.....	4½	217-245	1890	Oct. 1, 1898.....	29,000 00
Sewer District No. 16.....	5	2802-2809	1894	Oct. 1, 1898.....	8,000 00
Sewer District No. 17.....	5	2831-2832	1894	Oct. 1, 1898.....	2,000 00
Sewer District No. 18.....	5	742-746	1891	Oct. 1, 1898.....	5,000 00
Superior Viaduct.....	6	1-170	1878	Nov. 1, 1898.....	170,000 00
Canal.....	6	1-11	1879	Nov. 1, 1898.....	11,000 00
Total.....					\$ 1,036,070 00

TABLE No. 34.

DISBURSEMENTS IN DETAIL.

NOTES REDEEMED.

Date of Payment.	Voucher No.	Numbers of Notes Redeemed.	Amount.
May 1, 1898.....	50431	777, 814, 822, 838, 845, 853, 863, 876, 881, 886, 898, 898, 902, 908, 912, 922, 928, 938, 942, 952, 962, 968, 972, 977, 982, 987, 996, 1005, 1014, 1022, 1033, 1039, 1049, 1057	\$ 152,821 00
Nov. 1, 1898.....	65964	778, 815, 828, 839, 846, 854, 864, 869, 877, 882, 887, 894, 899, 903, 909, 913, 923, 929, 939, 943, 953, 963, 969, 973, 978, 983, 988, 997, 1006, 1015, 1024, 1034, 1040, 1050, 1058, 1063, 1072, 1081, 1090, 1101, 1110.....	210,251 00
		Total notes redeemed	\$ 363,102 00

TABLE No. 35.

DISBURSEMENTS IN DETAIL.

DEPOSITS RETURNED.

(For condensed statement of loans paid, see table No. 2.)

NOTE.—Money is collected under a rule of the Water Works Division requiring a deposit of \$1.00 for each foot of pipe laid at the request of property owners in streets where the estimated revenue therefrom will not pay 8 per cent. per annum upon the cost of the pipe. When the revenue reaches an amount equal to 8 per cent. per annum the deposit is returned. During 1898, deposits were returned to depositors as follows:

Depositor.	Street.	Amount.
E. W. Andrews	Duluth	\$ 325 00
Theo. Kundts	Winslow, Center, Elm.....	800 00
L. J. Hartsell.....	Sadie.....	194 00
Elovia R. C. Cody.....	Cable	774 87
Louisa Beckman.....	Ebert.....	778 00
Curtis & Ambler	Adrian.....	1,000 00
Louisa J. Roberts.....	Commonwealth	496 00
Total deposits returned .....	.....	\$ 4,307 87

DEPARTMENT OF ACCOUNTS.

TABLE NO. 36.

ASSETS IN DETAIL.

CASH.

(For condensed statement of assets, see table 2.)

IN CITY TREASURY:

Balance in Depository No. 1 (Euclid Avenue National Bank), as per report of said bank for Dec. 31, 1898.....	\$1,000,271 76
Balance in Depository No. 2 (Dime Savings and Banking Co.), as per report of said bank for Dec. 31, 1898.....	1,006,476 25
Balance in Depository No. 3 (Am. Exchange National Bank), as per report of said bank for Dec. 31, 1898.....	996,978 48
Cash deposited by City Treasurer January 3, 1899 (same being collections of Dec. 31, 1898, and a part of 1898 receipts), as per report of City Treasurer for January 1, 1899.....	28,855 47
Cash in hands of City Treasurer to meet contingencies of the city (Sec. 11, Depository law).....	2,000 00
Cash in hands of City Treasurer advanced on tax refunding certificates (Sec. 11, Depository law).....	9,953 60
Total.....	\$3,044,535 56
Less amount of checks issued by City Treasurer and not presented at banks for payment on Dec. 31, 1898, viz:	
On Euclid Avenue National Bank.....	\$68,142 26
On Dime Savings and Banking Co.....	74,657 94
On Am. Exchange National Bank.....	65,310 48
	\$ 208,110 68
Net Cash in City Treasury.....	\$2,836,424 88

IN HANDS OF SINKING FUND COMMISSIONERS:

To credit of Sinking Fund of 1862 (see tables Nos. 106 and 132).....	\$1,696,828 09
To credit of Viaduct Sinking Fund (see tables Nos. 105 and 132).....	197,447 60
To credit of New City Hall Sinking Fund (see tables Nos. 107 and 132).....	349,076 50
Total cash in hands of Commissioners.....	2,243,352 19
Total cash.....	\$5,079,777 07

TABLE NO. 37.
ASSETS IN DETAIL.
OFFICE FURNITURE.

(For condensed statement of furniture and fixtures, see table No. 2.)

Desks, chairs, filing cases, racks, typewriters, tables, partitions, atlases, vaults, law books and fittings in use in City Hall, exclusive of Water, Police and Fire offices, as per inventory.....	\$ 47,652 61
Ditto in Water Works office, as per inventory.....	10,159 84
Ditto in Department of Police offices.....	1,000 00
Ditto in Department of Fire service offices, as per inventory.....	975 45
Office furniture in office of Park Commissioners, No. 76 Euclid, as per inventory...	377 47
Desks, chairs, wardrobes, cases, etc., in Police Court offices, as per inventory.....	2,285 30
Office furniture in office of Health Officer, as per inventory.....	889 95
Desks, tables, counters, etc., in Out-door Relief office, as per inventory.....	317 50
Total.....	\$ 63,658 12

TABLE No. 40.

ASSETS IN DETAIL.

LAND, BUILDINGS AND IMPROVEMENTS.

(For condensed statement of permanent improvements, see table No. 2.)

Land and buildings at Division Street pumping station.....	\$ 425,470 42
Land and buildings at Fairmount reservoir.....	401,416 80
Land and buildings at Kinsman reservoir.....	145,162 13
Land and buildings at Fairmount pumping station.....	208,115 44
Land and buildings at Kirtland pumping station.....	36,641 92
Land on Ridge avenue and Glenville option.....	4,591 45
Public parks, parkways and driveways.....	6,433,098 24
Buildings and grounds complete for Police service, consisting of twelve police stations and five patrol stations.....	414,927 76
Land and buildings used for market purposes.....	168,021 11
Public bathing houses.....	4,065 22
City cemeteries.....	291,793 39
Buildings and grounds constituting the House of Correction.....	313,912 99
Buildings and grounds constituting the City Hospital, City Infirmary and farm..	673,384 38
Land and buildings complete for fire service, consisting of twenty-six engine companies', one hose company's and nine hook and ladder companies' stations	484,136 68
Total.....	\$ 9,952,732 93

TABLE No. 41.

ASSETS IN DETAIL.

PUBLIC HIGHWAYS.

(For condensed statement of permanent improvements, see table No. 2.)

Viaduct and bridge property complete	\$ 4,228,242 77
Cuyahoga River, widening and improving.....	497,085 20
City's portion of streets, pavements, gradings and improvements, including curb, street intersections, sidewalks and crosswalks.....	8,890,308 19
Total	\$13,615,636 16

TABLE No. 42.

ASSETS IN DETAIL.

SEWER AND WATER SYSTEMS.

(For condensed statement of permanent improvements, see table No. 2.)

The system of water pipes, connections, tunnels, cribs and fittings, complete.....	\$ 6,978,318 61
The system of sewer pipes, connections and fittings, complete, including inter- ceptor	6,015,014 95
Total.....	\$12,993,333 56

TABLE NO. 43.

ASSETS IN DETAIL.

MANUFACTURING AND MERCANTILE ENTERPRISES.

(For condensed statement of investments, see table No. 2.)

Value of manufactured and raw stock for brush manufacture, on hand at House of Correction	\$ 29,232 00
Total of bills and accounts receivable at House of Correction.....	15,732 34
Value of stationery and supplies on hand in City storeroom.....	2,993 91
Total.....	\$ 61,006 49

TABLE No. 44.

LIABILITIES IN DETAIL.

TOTAL BONDS AND NOTES OUTSTANDING.

(For condensed statement of liabilities, see table No. 2.)

(For comparison with former years, see table No. 144.)

(For itemized account, see tables 45 to 50.)

RECAPITULATION OF BONDED INDEBTEDNESS OF THE CITY

	1899	1900	1901	1902	1903	1904	1905
Bridge—Superior St. Viaduct (table No. 45).....	\$ 190,000	\$	\$	\$	\$	\$ 150,000	\$
" Elevated Roadway (table No. 45).....	.....	.....	235,000	100,000	325,000	232,000	.....
" Kingsbury Bridge (table No. 45).....	125,000	120,000	.....	.....	.....	.....	.....
" Pearl St. Bridge (table No. 45).....	.....	.....	.....	30,000	25,000	.....	.....
" Repairs (table No. 45).....	.....	.....	.....	.....	285,000	.....	.....
" (table No. 45).....	.....	.....	.....	.....	.....	.....	.....
Canal (table No. 45).....	.....	.....	.....	.....	150,000	.....	.....
Fire Department (table No. 45).....	.....	.....	.....	100,000	147,000	.....	.....
Funded Debt (table No. 45).....	295,000	156,000	139,000	273,000	.....	100,000	.....
Intercepting Sewer (table No. 45).....	.....	.....	.....	.....	.....	.....	.....
Park (table No. 45).....	.....	.....	.....	.....	.....	.....	.....
Police Station (table No. 45).....	.....	.....	20,000	.....	.....	.....	.....
River and Harbor (table No. 45).....	.....	.....	.....	.....	.....	.....	.....
Garbage (table No. 45).....	.....	.....	.....	.....	.....	.....	.....
Brooklyn General (table No. 45).....	3,400	1,700	1,850	.....	.....	.....	.....
Street Improvements (table No. 46).....	21,670	21,130	13,130	10,750	4,000	4,000	.....
Sewer District (table No. 47).....	45,000	106,000	98,000	62,000	51,000	20,000	.....
Water Works (table No. 48).....	.....	275,000	.....	500,000	312,000	.....	.....
Total Bonds outstanding.....	650,070	679,830	506,980	1,075,750	1,299,000	506,000	.....
Street Improvement Notes.....	445,940	286,350	224,910	140,900	57,280	.....	.....
Total indebtedness.....	\$1,096,010	\$ 946,180	\$ 731,890	\$1,216,650	\$1,356,280	\$ 506,000	\$

TABLE NO. 44.

LIABILITIES IN DETAIL.

TOTAL BONDS AND NOTES OUTSTANDING.

(For condensed statement of liabilities, see table No. 2.)

(For comparison with former years, see table No. 144.)

(For itemized account, see tables 45 to 50.)

OF CLEVELAND, DECEMBER 31, 1898, MATURING AS FOLLOWS:

1906	1907	1908	1916	1917	1921	1923	1924	1926	1927	1928	Totals.
\$.....	\$125,000	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$ 465,000
											892,000
											245,000
											55,000
45,000	90,000										420,000
								339,000			339,000
											150,000
											247,000
		225,000	276,000								1,434,000
					200,000			350,000			550,000
						500,000	500,000		600,000	400,000	2,000,000
				100,000							120,000
								500,000		250,000	750,000
			100,000								100,000
											6,950
											77,480
107,000	362,000	235,000	23,000	30,000							1,062,000
				500,000				600,000			2,387,000
152,000	477,000	460,000	399,000	630,000	200,000	500,000	500,000	1,789,000	600,000	650,000	11,300,430
											1,135,380
152,000	\$477,000	\$460,000	\$399,000	\$ 630,000	\$ 200,000	\$ 500,000	\$ 500,000	\$1,789,000	\$ 600,000	\$ 650,000	12,435,810

TABLE No. 45.
LIABILITIES IN DETAIL.
STATEMENT SHOWING THE AMOUNT OF GENERAL BONDS OF
AND MATURING

Class of Bonds.	Rate per cent.	Date of Original Issue.	Amount of Original Issue.	Months when Principal and Interest are due.	Record No. and Page.	1899.		1900	1901	1902	1903
						1st half	2d half.				
Bridge—(Sup'r St. Via.)	5	1877	\$ 125,000	June & Dec.	1-75	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
" " "	4	1898	190,000	Mar. & Sept.	.....	.....	190,000	.....	.....	.....	.....
" " "	4	1898	150,000	Apr. & Oct.	8-180	.....	.....	.....	.....	.....	.....
Bridge—(Kingsbury)...	5	1884	65,000	"	2-100	.....	65,000	.....	.....	.....	.....
" " "	4½	1885	60,000	"	2-102	.....	60,000	.....	.....	.....	.....
" " "	4	1885	60,000	"	2-104	.....	.....	60,000	.....	.....	.....
" " "	4	1886	30,000	May & Nov.	2-106	.....	.....	30,000	.....	.....	.....
" " "	4	1887	10,000	Mar. & Sept.	2-107	.....	.....	10,000	.....	.....	.....
" " "	5	1887	20,000	Apr. & Oct.	2-108	.....	.....	20,000	.....	.....	.....
Bridge—(Hew'd R'd'y)	4	1886	175,000	Jan. & July	2-120	.....	.....	.....	175,000	.....	.....
" " "	4	1886	60,000	May & Nov.	2-126	.....	.....	.....	60,000	.....	.....
" " "	4	1886	100,000	Apr. & Oct.	2-128	.....	.....	.....	.....	100,000	.....
" " "	4	1887	100,000	Jan. & July	2-132	.....	.....	.....	.....	.....	100,000
" " "	4	1887	75,000	June & Dec.	2-135	.....	.....	.....	.....	.....	75,000
" " "	5	1887	150,000	"	2-138	.....	.....	.....	.....	.....	150,000
" " "	5	1888	100,000	"	2-143	.....	.....	.....	.....	.....	.....
" " "	5	1888	114,000	"	2-147	.....	.....	.....	.....	.....	.....
" " "	5	1888	10,000	"	2-150	.....	.....	.....	.....	.....	.....
" " "	5	1889	8,000	"	2-150	.....	.....	.....	.....	.....	.....
Bridge—(Pearl St. Bdg.)	4	1886	10,000	Apr. & Oct.	1-144	.....	.....	.....	.....	10,000	.....
" " "	4	1887	25,000	"	1-144	.....	.....	.....	.....	20,000	5,000
" " "	5	1887	20,000	"	1-145	.....	.....	.....	.....	.....	20,000
" (Repair).....	4	1887	45,000	"	8-74	.....	.....	.....	.....	.....	.....
" " "	4	1887	90,000	"	8-75	.....	.....	.....	.....	.....	.....
" " "	5	1893	285,000	"	8-15	.....	.....	.....	.....	.....	285,000
" " "	4	1896	249,000	"	9-42	.....	.....	.....	.....	.....	.....
" " "	4	1898	90,000	"	.....	.....	.....	.....	.....	.....	.....
Forward.....							315,000	120,000	285,000	130,000	635,000

TABLE No. 45.
LIABILITIES IN DETAIL.

THE CITY OF CLEVELAND OUTSTANDING DECEMBER 31, 1898,
AS FOLLOWS:

1904	1906	1907	1908	1916	1917	1921	1923	1924	1926	1927	1928	Totals.
	\$	\$125,000	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$ 125,000
												180,000
150,000												150,000
												65,000
												60,000
												60,000
												30,000
												10,000
												20,000
												175,000
												60,000
												100,000
												100,000
												75,000
												150,000
100,000												100,000
114,000												114,000
10,000												10,000
8,000												8,000
												10,000
												25,000
												20,000
	45,000											45,000
		90,000										90,000
												285,000
									249,000			249,000
									90,000			90,000
382,000	45,000	215,000							339,000			2,416,000

DEPARTMENT OF ACCOUNTS.

TABLE No. 45—Concluded.

LIABILITIES IN DETAIL.

STATEMENT SHOWING THE AMOUNT OF GENERAL BONDS OF
AND MATURING

Class of Bonds.	Rate per cent.	Date of Original Issue.	Amount of Original Issue.	Months when Principal and Interest are due.	Record No. and Page.	1899.		1900	1901	1902	1903
						1st half	2d half.				
<i>Brought forward...</i>							\$315,000	\$120,000	\$235,000	\$130,000	\$65,000
Canal	5	1893	\$ 150,000	Apr. & Oct.	8-136						150,000
Fire Department.....	5	1893	100,000	"	8-125					100,000	
" "	5	1893	147,000	"	8-129						147,000
Funded Debt.....	5	1896	177,000	"	1-157		177,000				
" "	5	1897	88,000	"	1-154		88,000				
" "	5	1898	29,000	"	2-74			29,000			
" "	5	1899	39,000	"	2-78				39,000		
" "	5	1899	100,000	May & Nov.	2-75				100,000		
" "	4	1899	46,000	Apr. & Oct.	2-80					46,000	
" "	5	1901	127,000	"	8-30			127,000			
" "	5	1893	5,000	"	8-106					5,000	
" "	5	1893	222,000	"	8-107					222,000	
" "	4	1893	100,000	"	8-177						
" "	4	1896	276,000	"	9-1						
" "	4	1898	225,000	"							
Garbage.....	4	1898	100,000	"							
Intercepting Sewer.....	4	1896	110,000	"							
" "	4	1897	200,000	"							
" "	4	1898	240,000	"							
Park.....	4	1894	800,000	"							
"	4	1895	200,000	"							
"	4	1897	600,000	"							
"	4	1898	400,000	"							
Police.....	5	1891	20,000	May & Nov.	8-23				20,000		
"	4	1897	100,000	Apr. & Oct.							
River and Harbor.....	4	1896	250,000	"							
" "	4	1897	250,000	"							
" "	4	1898	250,000	"							
Brooklyn.....	6	1889	6,000	Mar. & Sept.			600				
"	6	1890	20,150	"			2,800	1,700	1,850		
Totals						\$583,400	\$277,700	\$395,850	\$508,000	\$582,000	

DEPARTMENT OF ACCOUNTS.

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TABLE No. 45—Concluded.

LIABILITIES IN DETAIL.

THE CITY OF CLEVELAND OUTSTANDING DECEMBER 31, 1898,
AS FOLLOWS:

1904	1906	1907	1908	1916	1917	1921	1923	1924	1926	1927	1928	Totals.
\$ 382,000	\$ 45,000	\$215,000	\$	\$	\$	\$	\$	\$	\$339,000	\$	\$	\$2,416,000
												150,000
												100,000
												147,000
												177,000
												88,000
												29,000
												39,000
												100,000
												46,000
												127,000
												5,000
												222,000
100,000												100,000
				276,000								276,000
			225,000									225,000
				100,000								100,000
									110,000			110,000
						200,000						200,000
									240,000			240,000
							500,000	300,000				800,000
								200,000				200,000
										600,000		600,000
											400,000	400,000
												20,000
					100,000							100,000
									250,000			250,000
									250,000			250,000
											250,000	250,000
												600
												6,360
482,000	\$ 45,000	\$215,000	\$225,000	\$376,000	\$100,000	\$200,000	\$500,000	\$500,000	1189,000	\$800,000	\$650,000	\$7,773,960

TABLE No. 40.

ASSETS IN DETAIL.

LAND, BUILDINGS AND IMPROVEMENTS.

(For condensed statement of permanent improvements, see table No. 2.)

Land and buildings at Division Street pumping station.....	\$ 425,470 42
Land and buildings at Fairmount reservoir.....	401,416 80
Land and buildings at Kinsman reservoir.....	145,162 13
Land and buildings at Fairmount pumping station.....	208,115 44
Land and buildings at Kirtland pumping station.....	36,641 92
Land on Ridge avenue and Glenville option.....	4,591 45
Public parks, parkways and driveways.....	6,433,098 24
Buildings and grounds complete for Police service, consisting of twelve police stations and five patrol stations.....	414,927 76
Land and buildings used for market purposes.....	166,021 11
Public bathing houses.....	4,065 22
City cemeteries.....	291,793 39
Buildings and grounds constituting the House of Correction.....	313,912 99
Buildings and grounds constituting the City Hospital, City Infirmary and farm.....	673,384 38
Land and buildings complete for fire service, consisting of twenty-six engine companies', one hose company's and nine hook and ladder companies' stations.....	434,126 68
Total.....	\$ 9,952,732 93

TABLE NO. 41.

ASSETS IN DETAIL.

PUBLIC HIGHWAYS.

(For condensed statement of permanent improvements, see table No. 2.)

Viaduct and bridge, property complete	\$ 4,228,242 77
Cuyahoga River, widening and improving.....	497,085 20
City's portion of streets, pavements, gradings and improvements, including curb, street intersections, sidewalks and crosswalks.....	8,890,308 19
Total	\$13,615,636 16

TABLE No. 42.

ASSETS IN DETAIL.

SEWER AND WATER SYSTEMS.

(For condensed statement of permanent improvements, see table No. 2.)

The system of water pipes, connections, tunnels, cribs and fittings, complete.....	\$ 6,978,318 61
The system of sewer pipes, connections and fittings, complete, including inter- ceptor	6,015,014 95
Total.....	\$12,993,333 56

TABLE NO. 43.

ASSETS IN DETAIL.

MANUFACTURING AND MERCANTILE ENTERPRISES.

(For condensed statement of investments, see table No. 2.)

Value of manufactured and raw stock for brush manufacture, on hand at House of Correction	\$ 29,232 00
Total of bills and accounts receivable at House of Correction.....	18,732 34
Value of stationery and supplies on hand in City storeroom.....	2,993 91
Total.....	<hr/> \$ 61,006 40

TABLE No. 44.

LIABILITIES IN DETAIL.

TOTAL BONDS AND NOTES OUTSTANDING.

(For condensed statement of liabilities, see table No. 2.)

(For comparison with former years, see table No. 144.)

(For itemized account, see tables 45 to 50.)

RECAPITULATION OF BONDED INDEBTEDNESS OF THE CITY

	1899	1900	1901	1902	1903	1904	1905
Bridge—Superior St. Viaduct (table No. 45).....	\$ 190,000	\$.....	\$.....	\$.....	\$.....	\$ 150,000	\$.....
“ Elevated Roadway (table No. 45).....			235,000	100,000	325,000	232,000	
“ Kingsbury Bridge (table No. 45).....	125,000	120,000					
“ Pearl St. Bridge (table No. 45).....				30,000	25,000		
“ Repairs (table No. 45).....					285,000		
“ (table No. 45).....							
Canal (table No. 45).....					150,000		
Fire Department (table No. 45).....				100,000	147,000		
Funded Debt (table No. 45).....	285,000	155,000	139,000	273,000		100,000	
Intercepting Sewer (table No. 45).....							
Park (table No. 45).....							
Police Station (table No. 45).....			20,000				
River and Harbor (table No. 45).....							
Garbage (table No. 45).....							
Brooklyn General (table No. 45).....	3,400	1,700	1,850				
Street Improvements (table No. 46).....	21,670	21,130	13,130	10,750	4,000	4,000	2,300
Sewer District (table No. 47).....	45,000	106,000	98,000	62,000	51,000	20,000	23,000
Water Works (table No. 48).....		275,000		500,000	312,000		31,000
Total Bonds outstanding.....	650,070	679,830	506,980	1,075,750	1,299,000	506,000	25,300
Street Improvement Notes.....	445,940	266,350	224,910	140,900	57,280		
Total indebtedness.....	\$1,096,010	\$ 946,180	\$ 731,890	\$1,216,650	\$1,356,280	\$ 506,000	\$ 25,300

TABLE NO. 44.

LIABILITIES IN DETAIL.

TOTAL BONDS AND NOTES OUTSTANDING.

(For condensed statement of liabilities, see table No. 2.)

(For comparison with former years, see table No. 144.)

(For itemized account, see tables 45 to 50.)

OF CLEVELAND, DECEMBER 31, 1898, MATURING AS FOLLOWS:

1906	1907	1908	1916	1917	1921	1923	1924	1926	1927	1928	Totals.
\$.....	\$125,000	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$ 465,000
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	892,000
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	245,000
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	55,000
45,000	90,000	.....	.....	.....	.....	.....	.....	.....	.....	.....	420,000
.....	.....	.....	.....	.....	.....	.....	.....	339,000	.....	.....	339,000
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	150,000
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	247,000
.....	.....	225,000	276,000	.....	.....	.....	.....	.....	.....	.....	1,434,000
.....	.....	.....	.....	.....	200,000	.....	.....	350,000	.....	.....	550,000
.....	.....	.....	.....	.....	.....	500,000	500,000	.....	600,000	400,000	2,000,000
.....	.....	.....	.....	100,000	.....	.....	.....	.....	.....	.....	120,000
.....	.....	.....	.....	.....	.....	.....	.....	500,000	.....	250,000	750,000
.....	.....	.....	100,000	.....	.....	.....	.....	.....	.....	.....	100,000
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6,950
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	77,480
107,000	262,000	235,000	25,000	30,000	.....	.....	.....	.....	.....	.....	1,062,000
.....	.....	.....	.....	500,000	.....	.....	.....	600,000	.....	.....	2,387,000
152,000	477,000	460,000	399,000	630,000	200,000	500,000	500,000	1,789,000	600,000	650,000	11,300,430
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,135,380
\$ 152,000	\$ 477,000	\$ 460,000	\$ 399,000	\$ 630,000	\$ 200,000	\$ 500,000	\$ 500,000	\$ 1,789,000	\$ 600,000	\$ 650,000	12,435,810

TABLE No. 45.
LIABILITIES IN DETAIL.
STATEMENT SHOWING THE AMOUNT OF GENERAL BONDS OF
AND MATURING

Class of Bonds.	Rate per cent.	Date of Original Issue.	Amount of Original Issue.	Months when Principal and Interest are due.	Record No. and Page.	1899.		1900	1901	1902	1903
						1st half	2d half				
Bridge—(Sup'r St. Via.)	5	1877	\$ 125,000	June & Dec.	1-75	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
" " "	4	1898	190,000	Mar. & Sept.	.....	.....	190,000	.....	.....	.....	.....
" " "	4	1898	150,000	Apr. & Oct.	8-180	.....	.....	.....	.....	.....	.....
Bridge—(Kingsbury).....	5	1884	65,000	"	2-100	.....	65,000	.....	.....	.....	.....
" " "	4½	1885	60,000	"	2-102	.....	60,000	.....	.....	.....	.....
" " "	4	1886	60,000	"	2-104	.....	.....	60,000	.....	.....	.....
" " "	4	1886	30,000	May & Nov.	2-106	.....	.....	30,000	.....	.....	.....
" " "	4	1887	10,000	Mar. & Sept.	2-107	.....	.....	10,000	.....	.....	.....
" " "	5	1887	20,000	Apr. & Oct.	2-108	.....	.....	20,000	.....	.....	.....
Bridge—(Hew'd R'd'y)	4	1886	175,000	Jan. & July	2-120	.....	.....	.....	175,000	.....	.....
" " "	4	1886	60,000	May & Nov.	2-126	.....	.....	.....	60,000	.....	.....
" " "	4	1886	100,000	Apr. & Oct.	2-128	.....	.....	.....	.....	100,000	.....
" " "	4	1887	100,000	Jan. & July	2-132	.....	.....	.....	.....	.....	100,000
" " "	4	1887	75,000	June & Dec.	2-135	.....	.....	.....	.....	.....	75,000
" " "	5	1887	150,000	"	2-138	.....	.....	.....	.....	.....	150,000
" " "	5	1888	100,000	"	2-143	.....	.....	.....	.....	.....	.....
" " "	5	1888	114,000	"	2-147	.....	.....	.....	.....	.....	.....
" " "	5	1888	10,000	"	2-150	.....	.....	.....	.....	.....	.....
" " "	5	1889	8,000	"	2-150	.....	.....	.....	.....	.....	.....
Bridge—(Pearl St. Bdg.)	4	1886	10,000	Apr. & Oct.	1-144	.....	.....	.....	.....	10,000	.....
" " "	4	1887	25,000	"	1-144	.....	.....	.....	.....	20,000	5,000
" " "	5	1887	20,000	"	1-145	.....	.....	.....	.....	.....	20,000
" (Repair).....	4	1887	45,000	"	8-74	.....	.....	.....	.....	.....	.....
" " "	4	1887	90,000	"	8-75	.....	.....	.....	.....	.....	.....
" " "	5	1893	285,000	"	8-15	.....	.....	.....	.....	.....	285,000
" " "	4	1896	249,000	"	9-42	.....	.....	.....	.....	.....	.....
" " "	4	1898	90,000	"	.....	.....	.....	.....	.....	.....	.....
Forward.....	.....	.....	.....	.....	.....	.....	315,000	120,000	285,000	130,000	65,000

TABLE No. 45.

LIABILITIES IN DETAIL.

THE CITY OF CLEVELAND OUTSTANDING DECEMBER 31, 1898,
S FOLLOWS:

1904	1906	1907	1908	1916	1917	1921	1923	1924	1926	1927	1928	Totals.
	\$.....	\$125,000	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$ 125,000
												180,000
150,000												150,000
												65,000
												60,000
												60,000
												30,000
												10,000
												20,000
												175,000
												60,000
												100,000
												100,000
												75,000
												150,000
100,000												100,000
114,000												114,000
10,000												10,000
8,000												8,000
												10,000
												25,000
												20,000
	45,000											45,000
		90,000										90,000
												285,000
									249,000			249,000
									90,000			90,000
382,000	45,000	215,000							339,000			2,416,000

DEPARTMENT OF ACCOUNTS.

TABLE No. 45—Concluded.

LIABILITIES IN DETAIL.

STATEMENT SHOWING THE AMOUNT OF GENERAL BONDS OF
AND MATURING

Class of Bonds.	Rate per cent.	Date of Original Issue.	Amount of Original Issue.	Months when Principal and Interest are due.	Record No. and Page.	1899.		1900	1901	1902	1903
						1st half.	2d half.				
<i>Brought forward.....</i>						\$315,000		\$120,000	\$235,000	\$130,000	\$55,000
Canal	5	1893	\$ 150,000	Apr. & Oct.	8-138						150,000
Fire Department.....	5	1893	100,000	"	8-125					100,000	
" "	5	1893	147,000	"	8-129						147,000
Funded Debt.....	5	1886	177,000	"	1-157	177,000					
" "	5	1887	88,000	"	1-154	88,000					
" "	5	1888	29,000	"	2-74		29,000				
" "	5	1889	39,000	"	2-78			39,000			
" "	5	1889	100,000	May & Nov.	2-75			100,000			
" "	4	1889	46,000	Apr. & Oct.	2-80					46,000	
" "	5	1891	127,000	"	8-30		127,000				
" "	5	1893	5,000	"	8-106					5,000	
" "	5	1893	222,000	"	8-107					222,000	
" "	4	1893	100,000	"	8-177						
" "	4	1896	276,000	"	9-1						
" "	4	1898	225,000	"							
Garbage.....	4	1898	100,000	"							
Intercepting Sewer.....	4	1896	110,000	"							
" "	4	1897	200,000	"							
" "	4	1898	240,000	"							
Park.....	4	1894	800,000	"							
"	4	1895	200,000	"							
"	4	1897	600,000	"							
"	4	1898	400,000	"							
Police.....	5	1891	20,000	May & Nov.	8-23			20,000			
"	4	1897	100,000	Apr. & Oct.							
River and Harbor.....	4	1896	250,000	"							
" "	4	1897	250,000	"							
" "	4	1898	250,000	"							
Brooklyn.....	6	1889	6,000	Mar. & Sept.		600					
"	6	1890	20,150	"		2,800	1,700	1,850			
Totals						\$ 583,400	\$ 277,700	\$ 395,850	\$ 508,000	\$ 932,000	

DEPARTMENT OF ACCOUNTS.

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TABLE No. 45—Concluded.

LIABILITIES IN DETAIL.

THE CITY OF CLEVELAND OUTSTANDING DECEMBER 31, 1898,
AS FOLLOWS:

1904	1906	1907	1908	1916	1917	1921	1923	1924	1926	1927	1928	Totals.
\$ 332,000	\$ 45,000	\$215,000	\$	\$	\$	\$	\$	\$	\$339,000	\$	\$	\$2,416,000
												150,000
												100,000
												147,000
												177,000
												88,000
												29,000
												39,000
												100,000
												46,000
												127,000
												5,000
												222,000
100,000												100,000
				276,000								276,000
			225,000									225,000
				100,000								100,000
									110,000			110,000
						200,000						200,000
									240,000			240,000
							500,000	300,000				800,000
								200,000				200,000
										600,000		600,000
											400,000	400,000
												20,000
					100,000							100,000
									250,000			250,000
									250,000			250,000
											250,000	250,000
												600
												6,350
\$ 482,000	\$ 45,000	\$215,000	\$ 225,000	\$376,000	\$100,000	\$200,000	\$500,000	\$500,000	1189,000	\$600,000	\$650,000	\$7,773,950

TABLE NO. 46.

LIABILITIES IN DETAIL.

STATEMENT SHOWING AMOUNT OF STREET IM-
31, 1898, AND MATUR-

G. R.	Class of Bonds.	Rate of Interest.	Amount of original issue.	Date of original issue.
498	Walworth opening.....	4	\$ 100,000	1890
2134	Denison paving.....	6	13,250	1892
1982	Detroit paving.....	6	30,000	1892
1983	Detroit paving.....	6	20,000	1893
2108	Greenwood paving.....	6	12,000	1891
2459	Newburg paving.....	6	10,050	1892
2457	Fish paving.....	6	32,400	1891
2166	Terrace sewer.....	6	700	1894
2107	Greenwood water pipe.....	6	2,000	1894
	Totals .....	.....	.....	.....

TABLE No. 46.

LIABILITIES IN DETAIL.

PROVEMENT BONDS OUTSTANDING DECEMBER
ING AS FOLLOWS:

MATURITY.							Totals.
1899	1900	1901	1902	1903	1904	1905	
\$ 10,000	\$ 10,000	\$.....	\$.....	\$.....	\$.....	\$.....	\$ 20,000 00
1,200	1,200	1,200	1,200	1,200	1,200	.....	7,200 00
3,000	3,000	3,000	3,000	.....	.....	.....	12,000 00
2,000	2,000	2,000	2,000	.....	.....	.....	8,000 00
1,130	1,130	1,130	700	.....	.....	.....	4,090 00
1,000	1,000	1,000	1,060	.....	.....	.....	4,060 00
2,800	2,800	4,800	2,800	2,800	2,800	2,800	21,800 00
140	.....	.....	.....	.....	.....	.....	140 00
400	.....	.....	.....	.....	.....	.....	400 00
\$ 21,670	\$ 21,130	\$ 13,130	\$ 10,750	\$ 4,000	\$ 4,000	\$ 2,800	\$ 77,490 00

TABLE NO. 47.

LIABILITIES IN DETAIL.

STATEMENT SHOWING AMOUNT OF SEWER DISTRICT BONDS

Class of Bonds.	Rate of Interest.	Numbers of Bonds.	1899.		1900.		1901.		1902.		1903.	
			Apr.	Oct.	Apr.	Oct.	Apr.	Oct.	Apr.	Oct.	Apr.	Oct.
Sewer District No. 3	4	9162 to 9175	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$
"	4	5276 to 5318					20,000					
"	4	7753 to 7760						8,000				
"	4	8962 to 9011										
"	5	7722 to 7726						5,000				
"	5	8942 to 8961										
"	5	9012 to 9018										
"	10	1970 to 1971							2,000			
"	10	575 to 577		1,000		1,000		1,000				
"	10	2819 to 2820							2,000			
"	11	9019 to 9053										
"	12	9054 to 9103										
"	13	7549 to 7611						20,000				20,000
"	13	10264 to 10388										
"	14	7780 to 7752										
"	14	682 to 637		2,000		4,000						
"	14	9176 to 9188										
"	14	9201 to 9230										
"	14	10254 to 10263										
"	15	548 to 567		20,000								
"	15	578 to 585		8,000								
"	15	638 to 689				52,000						
"	15	919 to 946				28,000						
"	15	1000 to 1010				11,000						
"	15	1585 to 1611						27,000				
"	15	5024 to 5073							50,000			
"	15	5319 to 5388								25,000		
"	16	5406 to 5428					10,000					
"	16	3055 to 3056							2,000			
"	16	2810 to 2818		9,000								
"	16	9104 to 9154										
"	16	9189 to 9200										
"	16	10204 to 10253										
"	17	5389 to 5404										
"	17	7727 to 7729						3,000				
"	18	747 to 761		5,000		10,000						
"	18	5275 to 5278						4,000				
"	18	7784 to 7795							6,000			6,000
"	18	8046 to 8051										
"	18	9231 to 9233										
"	18	10164 to 10208										
"	19	7761 to 7783										
"	21	9155 to 9161										
"	21	10154 to 10163										
			\$ 45,000		\$ 106,000		\$ 30,000	\$ 68,000	\$ 62,000		\$ 25,000	\$ 25,000

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LIABILITIES IN DETAIL.

[illegible]

LIABILITIES IN DETAIL.

TABLE No. 48.

STATEMENT SHOWING THE AMOUNT OF WATER
STANDING DEC. 31, 1898,

Class of Bonds.	Rate per cent.	Date of Original Issue.	Amount of Original Issue.	Months when Principal and Interest are Due.
Water Works.....	3 ⁴⁵ / ₁₀₀	1882	100,000	March and September
"	4	1883	100,000	January and July
"	4	1897	500,000	April and October
"	6	1885	275,000	March and September
"	4 ¹ / ₂	1892	400,000	April and October
"	4	1898	200,000	"
"	4	1895	200,000	"
"	4	1896	600,000	"
"	6	1893	12,000	January and July
Total				

LIABILITIES IN DETAIL.

TABLE NO. 48.

WORKS BONDS OF THE CITY OF CLEVELAND OUT-
MATURING AS FOLLOWS:

Record Number and Page.	1900	1902	1903	1905	1917	1926	TOTAL.
3-74	\$.....	\$100,000	\$.....	\$.....	\$.....	\$.....	\$ 100,000
2-46	.....	.....	100,000	.....	.....	.....	100,000
2-44	.....	.....	.....	.....	500,000	.....	500,000
2-62	275,000	.....	.....	.....	.....	.....	275,000
8-43	.....	400,000	.....	.....	.....	.....	400,000
8-99	.....	.....	200,000	.....	.....	.....	200,000
8-188	.....	.....	.....	200,000	.....	.....	200,000
9-12	.....	.....	.....	.....	.....	600,000	600,000
Brooklyn	.....	.....	12,000	.....	.....	.....	12,000
.....	\$275,000	\$500,000	\$112,000	\$200,000	\$500,000	\$600,000	\$ 2,387,000

TABLE NO. 49.

LIABILITIES IN DETAIL.

NOTES OUTSTANDING.

(For condensed statement of liabilities, see table No. 2.)

(For comparison with former years, see table No. 144.)

Numbers of Notes.	Rate.	MATURITY.										Totals.
		1899.		1900.		1901.		1902.		1903.		
		May.	Nov.	May.	Nov.	May.	Nov.	May.	Nov.	May.	Nov.	
847-848	5	\$ 22,790	\$ 22,790									
855-856	5	14,010	14,010									
865-866	5	7,350	7,350									
888-889	5		490									
904-905	5	7,710	7,710									
914-919	5	60	60									
924-925	5	260	260	260	260	260	260					
930-935	5	325	325									
944-949	5	2,200	2,200	1,500	1,500	1,500	1,500					
954-959	5	4,900	4,900	4,900	4,900	4,900	4,900					
964-965	5	1,700	1,700	1,700	1,700	1,700	1,700					
974-975	5	3,000	3,000									
979-980	5	900	900									
984-985	5	7,770	7,770									
989-994	5	1,340	1,340									
998-1003	5	6,100	6,100	4,350	4,350	4,350	4,350					
1007-1012	5	3,680	3,680	1,780	1,780	1,780	1,780					
1016-1021	5	4,865	4,865	3,520	3,520	3,520	3,520					
1025-1032	5	1,980	1,980	1,500	1,500	1,500	1,500					
1035-1038	5	1,520	1,520	950	950	950	950	250	250			
1041-1048	5	1,475	1,475	200	200							
1051-1056	5	13,720	13,720	8,745	8,745	8,495	8,495	4,620	4,620			
1059-1062	5	3,000	3,000	2,500	2,500	400	400					
1064-1071	5	450	450	450	450							
1073-1080	5	27,360	27,360	27,360	27,360	23,130	23,130	21,150	21,150			
1082-1089	5	8,540	8,540	8,540	8,540	7,840	7,840	7,060	7,060			
1091-1100	5	3,670	3,670	3,670	3,670	1,510	1,510	700	700			
1102-1109	5	9,140	9,140	9,140	9,140	8,260	8,260	6,500	6,500	1,200	1,200	
1111-1120	5	7,940	7,940	7,790	7,790	3,150	3,150	2,000	2,000			
1121-1130	5	8,980	8,980	8,980	8,980	6,600	6,600	600	600	400	400	
1131-1136	5	1,560	1,560	1,560	1,560	950	950	730	730	500	500	
1137-1146	5	5,465	5,465	2,465	2,465	1,170	1,170					
1147-1156	5	5,390	5,390	5,390	5,390	5,390	5,390	1,740	1,740	1,440	1,440	
1157-1166	5	5,600	5,600	5,600	5,600	5,600	5,600	5,600	5,600	5,600	5,600	
1167-1168	5	20,325	20,325	20,325	20,325	19,500	19,500	19,500	19,500	19,500	19,500	
	5	7,650	7,650									
Totals		\$222,725	\$223,215	\$133,175	\$133,175	\$112,455	\$112,455	\$70,450	\$70,450	\$28,640	\$28,640	\$1,135,390

TABLE No. 50.
MATURITY OF PRINCIPAL AND INTEREST.
LIABILITIES IN DETAIL.

Year.	Month.	Bonds.	Interest on Bonds.	Notes.	Interest on Notes.	Total for Month.	Total for Year.
1899	January	\$.....	\$ 7,860 00	\$.....	\$.....	7,860 00	\$.....
"	February	.....	240 00	.....	.....	240 00	.....
"	March	.....	15,407 90	.....	.....	15,407 90	.....
"	April	.....	199,106 00	.....	.....	204,106 00	.....
"	May	5,000 00	4,800 00	223,726 00	23,007 87	255,532 87	.....
"	June	.....	14,175 00	.....	.....	14,175 00	.....
"	July	.....	8,580 00	.....	.....	8,580 00	.....
"	August	2,000 00	240 00	.....	.....	2,240 00	.....
"	September	200,070 00	15,407 90	.....	.....	215,477 90	.....
"	October	443,000 00	199,050 00	.....	.....	642,050 00	.....
"	November	.....	4,800 00	223,215 00	23,516 40	250,531 40	.....
"	December	.....	14,175 00	.....	.....	14,175 00	1,630,674 57
1900	January	.....	7,860 00	.....	.....	7,860 00	.....
"	February	.....	180 00	.....	.....	180 00	.....
"	March	285,000 00	11,305 80	.....	.....	296,305 80	.....

DEPARTMENT OF ACCOUNTS.

TABLE No. 50—Continued.

Year.	Month.	Bonds.	Interest on Bonds.	Notes.	Interest on Notes.	Total for Month.	Total for Year.
1900	April	\$ 5,000 00	\$ 188,980 00	\$	\$	\$ 188,980 00	\$
"	May	30,000 00	4,800 00	188,175 00	17,236 00	186,211 00	.....
"	June.....	.....	14,175 00	.....	.....	14,175 00	.....
"	July .....	.....	8,400 00	.....	.....	8,400 00	.....
"	August	2,000 00	180 00	.....	.....	2,180 00	.....
"	September ..	7,830 00	2,855 80	.....	.....	10,685 80	.....
"	October.....	350,000 00	188,125 00	.....	.....	588,125 00	.....
"	November .....	.....	4,200 00	188,175 00	15,806 60	151,281 60	.....
"	December .....	.....	14,175 00	.....	.....	14,175 00	1,422,559 20
1901	January	175,000 00	7,880 00	.....	.....	182,880 00	.....
"	February .....	.....	120 00	.....	.....	120 00	.....
"	March .....	.....	2,620 90	.....	.....	2,620 90	.....
"	April	30,000 00	179,730 00	.....	.....	209,730 00	.....
"	May	80,000 00	4,200 00	112,455 00	10,877 20	207,232 20	.....
"	June.....	.....	14,175 00	.....	.....	14,175 00	.....
"	July .....	.....	4,720 00	.....	.....	4,720 00	.....
"	August	2,000 00	120 00	2,120 00
"	September.....	9,980 00	2,620 90	12,600 90

DEPARTMENT OF ACCOUNTS.

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TABLE No. 50—Continued.

Year.	Month.	Bonds.	Interest on Bonds.	Notes.	Interest on Notes.	Total for Month.	Total for Year.
1901	October	\$ 110,000 00	\$ 179,975 00	\$	\$	289,975 00	\$
"	November	100,000 00	2,500 00	112,455 00	7,785 85	222,720 85	1,163,049 85
"	December .....	.....	14,175 00	.....	.....	14,175 00	.....
1902	January .....	.....	4,360 00	.....	.....	4,360 00	.....
"	February .....	.....	60 00	.....	.....	60 00	.....
"	March .....	.....	2,321 50	.....	.....	2,321 50	.....
"	April	446,000 00	176,635 00	.....	.....	622,635 00	.....
"	May .....	.....	.....	70,450 00	4,954 50	75,404 50	.....
"	June .....	.....	14,175 00	.....	.....	14,175 00	.....
"	July .....	.....	4,540 00	.....	.....	4,540 00	.....
"	August	2,000 00	60 00	.....	.....	2,060 00	.....
"	September	105,750 00	2,321 50	.....	.....	108,071 50	.....
"	October	522,000 00	166,760 00	.....	.....	688,760 00	.....
"	November .....	.....	.....	70,450 00	3,193 25	73,643 25	.....
"	December .....	.....	14,175 00	.....	.....	14,175 00	1,610,205 75
1903	January	200,000 00	4,360 00	.....	.....	204,360 00	.....
"	March .....	.....	324 00	.....	.....	324 00	.....
"	April	225,000 00	150,670 00	.....	.....	375,670 00	.....

DEPARTMENT OF ACCOUNTS.

TABLE No. 50—Continued.

Year.	Month.	Bonds.	Interest on Bonds.	Notes.	Interest on Notes.	Total for Month.	Total for Year.
1903	May	\$	\$	\$ 28,640 00	\$ 1,432 00	\$ 30,072 00	\$
"	June	225,000 00	14,175 00			239,175 00	
"	July	12,000 00	840 00			12,860 00	
"	September	4,000 00	324 00			4,324 00	
"	October	638,000 00	150,170 00			788,170 00	
"	November					29,358 00	
"	December			28,640 00	716 00	8,925 00	1,687,738 00
1904	March		8,925 00			204 00	
"	April	120,000 00	134,500 00			254,500 00	
"	June	232,000 00	8,925 00			240,925 00	
"	September	4,000 00	204 00			4,204 00	
"	October	150,000 00	132,100 00			282,100 00	
"	December		3,125 00			3,125 00	785,068 00
1905	March		84 00			84 00	
"	April		129,100 00			129,100 00	
"	June		3,125 00			3,125 00	
"	September	2,800 00	84 00			2,884 00	
"	October	228,000 00	129,100 00			357,100 00	

DEPARTMENT OF ACCOUNTS.

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TABLE NO. 50—Continued.

Year.	Month.	Bonds.	Interest on Bonds.	Notes.	Interest on Notes.	Total for Month.	Total for Year.
1906	December	\$	\$ 3,125 00	\$	\$	3,125 00	\$ 480,418 00
1906	April	78,000 00	124,640 00	.....	.....	202,640 00	.....
"	June .....	.....	3,125 00	.....	.....	3,125 00	.....
"	October	74,000 00	123,080 00	.....	.....	197,080 00	.....
"	December .....	.....	3,125 00	.....	.....	3,125 00	405,970 00
1907	April .....	.....	121,600 00	.....	.....	121,600 00	.....
"	June	125,000 00	3,125 00	.....	.....	128,125 00	.....
"	October	352,000 00	121,600 00	.....	.....	473,600 00	722,825 00
1908	April .....	.....	114,560 00	.....	.....	114,560 00	.....
"	October	460,000 00	114,560 00	.....	.....	574,560 00	689,120 00
1909	April .....	.....	105,360 00	.....	.....	105,360 00	.....
"	October .....	.....	105,360 00	.....	.....	105,360 00	210,720 00
1910	April .....	.....	105,360 00	.....	.....	105,360 00	.....
"	October .....	.....	105,360 00	.....	.....	105,360 00	210,720 00
1911	April .....	.....	105,360 00	.....	.....	105,360 00	.....
"	October .....	.....	105,360 00	.....	.....	105,360 00	210,720 00
1912	April .....	.....	105,360 00	.....	.....	105,360 00	.....
"	October .....	.....	105,360 00	.....	.....	105,360 00	210,720 00

DEPARTMENT OF ACCOUNTS.

TABLE No. 50—Continued.

Year.	Month.	Bonds.	Interest on Bonds.	Notes.	Interest on Notes.	Total for Month.	Total for Year.
1913	April	\$	\$ 105,380 00	\$	\$	\$ 105,380 00	\$
"	October .....	.....	105,380 00	.....	.....	105,380 00	210,720 00
1914	April .....	.....	105,380 00	.....	.....	105,380 00	.....
"	October .....	.....	105,380 00	.....	.....	105,380 00	210,720 00
1915	April .....	.....	105,380 00	.....	.....	105,380 00	.....
"	October .....	.....	105,380 00	.....	.....	105,380 00	210,720 00
1916	April .....	.....	105,380 00	.....	.....	105,380 00	.....
"	October .....	.....	105,380 00	.....	.....	105,380 00	608,720 00
1917	April	389,000 00	105,380 00	.....	.....	504,380 00	.....
"	October	600,000 00	97,380 00	.....	.....	697,380 00	812,760 00
1918	April	30,000 00	85,380 00	.....	.....	115,380 00	.....
"	October .....	.....	84,780 00	.....	.....	84,780 00	169,560 00
1919	April .....	.....	81,780 00	.....	.....	84,780 00	.....
"	October .....	.....	84,780 00	.....	.....	84,780 00	169,560 00
1920	April .....	.....	84,780 00	.....	.....	84,780 00	.....
"	October .....	.....	84,780 00	.....	.....	84,780 00	169,560 00
1921	April	84,780 00	84,780 00
"	October	200,000 00	84,780 00	284,780 00	369,560 00

DEPARTMENT OF ACCOUNTS.

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TABLE No. 50—Concluded.

Year.	Month.	Bonds.	Interest on Bonds.*	Notes.	Interest on Notes.	Total for Month.	Total for Year.
1922	April	\$	\$ 80,780 00	\$	\$	80,780 00	\$
"	October .....	.....	80,780 00	.....	.....	80,780 00	161,560 00
1923	April .....	.....	80,780 00	.....	.....	80,780 00	.....
"	October	500,000 00	80,780 00	.....	.....	580,780 00	661,560 00
1924	April	500,000 00	70,780 00	.....	.....	570,780 00	.....
"	October .....	.....	60,780 00	.....	.....	60,780 00	631,560 00
1925	April .....	.....	60,780 00	.....	.....	60,780 00	.....
"	October .....	.....	60,780 00	.....	.....	60,780 00	121,560 00
1926	April	90,000 00	60,780 00	.....	.....	150,780 00	.....
"	October	1,692,000 00	58,980 00	.....	.....	1,757,980 00	1,908,760 00
1927	April	600,000 00	26,000 00	.....	.....	626,000 00	.....
"	October .....	.....	13,000 00	.....	.....	13,000 00	639,000 00
1928	April	400,000 00	13,000 00	.....	.....	413,000 00	.....
"	October	250,000 00	5,000 00	.....	.....	255,000 00	668,000 00
Total		\$11,300,480 00	\$6,628,461 20	\$1,135,980 00	\$110,605 17	\$19,174,576 37	\$19,174,576 37

TABLE NO. 51.
LIABILITIES IN DETAIL.
DEPOSITS.

(For condensed statement of liabilities, see table No. 2).

A rule of the Water Works Division requires a deposit of \$1.00 for each foot of pipe laid at the request of the property owners in streets where the estimated revenue therefrom will not pay 8 per cent. per annum upon the cost of the pipe. When the revenue reaches an amount equal to 8 per cent. per annum the deposit is returned to the depositor. At the close of business on December 31st, 1898, there was on deposit under said rule \$22,661.11, as follows:

Name.	Street.	Amount.
H. P. McIntosh.....	Handy.....	\$ 1,082 98
Samuel Mather.....	Bellflower.....	600 00
W. J. Gordon.....	Bridge.....	600 00
Geo. E. Hartnell.....	Keil.....	500 00
Geo. E. Hartnell.....	Keil.....	60 00
W. F. Hoppensack.....	Hoppensack, Justus.....	520 00
Josephine B. Purcell and } S. B. Weaver..... }	Berghoff.....	600 00
W. C. Scofield.....	Esra.....	620 00
Curtiss & Ambler.....	Superior.....	450 00
H. P. McIntosh.....	Perkins.....	362 98
W. C. Scofield.....	Esra.....	50 00
W. J. Gordon estate.....	Ellen.....	836 00
J. H. Brown and R. M. Parmely.....	Edge Hill, Overlook.....	1,085 70
Holmes Marshall, adm'r.....	Shale.....	770 00
Chas. M. Mix.....	Helm.....	2,360 04
Chas. Raid.....	Elsa Place.....	190 00
Mathilda E. B. Junge.....	Elsa Place.....	190 00
Dr. F. L. Thompson.....	East View.....	820 00
H. C. Bauman.....	Morton.....	610 41
L. A. Cobb.....	Prescott.....	2,418 00
L. A. Cobb.....	Matley.....	2,418 00
J. D. Cleveland.....	Fairfield.....	518 00
Total Water Works deposits.....		\$17,661 11
Art Gallery fund (see table No. 108).....		5,000 00
Total deposits.....		\$22,661 11

PART III.

THE FUNDS.

TABLE No. 52.

GENERAL (ADMINISTRATION) FUND CLASSIFIED
ANALYSIS.(For itemized analysis, see table No. 53, and for local account see tables
No. 54 to No. 62, inclusive.)

Cash on hand January 1st, 1898.		\$ 8,307 62
RECEIPTS.		
Received from general tax	\$115,445 71	
Received from special assessment	440 74	
Received from liquor tax.....	144,280 23	
Received from licenses and franchises	2,635 00	
Total tax		\$262,801 68
Received from rents.....	\$5,117 98	
Received from fees	11,076 44	
Received from reimbursements	11,801 48	
Total earnings.....		\$27,995 90
Total receipts.....		\$290,797 58
Total to be accounted for.....		\$299,105 20
DISBURSEMENTS.		
Paid fixed charges and salaries	\$244,150 36	
Paid for maintenance	51,946 04	
Total operating expenses.....		\$296,096 40
Paid for office furniture	\$1,665 48	
Total furniture and fixtures.....		\$1,665 48
Total disbursements.....		\$297,761 88
Cash on hand January 1, 1899		\$1,343 32
ASSETS.		
Cash.....	\$1,343 32	
Office furniture (table No. 37.)	47,652 61	
Total assets.....		\$48,995 93
LIABILITIES.		
No liabilities		
Excess of assets.....		\$48,995 93

TABLE No. 53.

GENERAL (ADMINISTRATION) FUND—ITEMIZED
ANALYSIS.(For classified analysis, see Table No. 52, and for local account see tables Nos.
54 to 62 inclusive.)

Cash on hand January 1, 1898.....	\$ 8,307 62
Received from general levy of 85 cents on each \$1,000 on the tax duplicate of 1897	115,445 71
Received from 2½-10 of liquor tax collection	144,280 23
Received from special assessments for sewer and water connections.....	440 74
Received from 1,956 stationary engineers' and firemen's licenses.....	560 00
Received from 45 theater and exhibition licenses.....	836 00
Received from 58 express wagon and moving van licenses.....	174 00
Received from 19 pawnbroker's licenses	950 00
Received from 1 ferry license	10 00
Received from 3 transient dealers' licenses.....	105 00
Received from City Hall rents	4,907 98
Received from dock rents	210 00
Received from Justice of the Peace fees.....	10,876 44
Received from permit to build conduit.....	200 00
Received from reimbursements from street improvement funds, on account of printing charges.....	11,801 48
Total to be accounted for.....	299,105 20
Total disbursements as below	297,761 88
Cash on hand January 1, 1899.....	\$ 1,343 32

DISBURSEMENTS IN DETAIL.

See Table No.	Paid on account of	Fixed Charges and Salaries.	Mainte- nance.	Furniture.	Total.
54	Mayor and Board of Control	\$ 34,939 20	\$ 4,926 91	\$ 209 60	\$ 40,075 71
55	Department of Public Works.....	119,213 21	17,730 60	518 65	137,462 46
56	Department of Accounts	15,920 00	3,671 37	99 49	19,690 86
57	Department of Law	10,000 00	5,842 96	193 62	16,036 58
58	Department of Charities and Cor'n.	1,000 00	185 44	.....	1,185 44
59	Legislative Department	15,017 82	16,372 78	191 09	31,581 69
60	City Treasurer	8,615 00	478 29	66 25	9,159 54
61	Board of Elections	18,691 55	2,077 27	87 35	20,856 17
62	Judicial-Employment	20,753 58	660 42	299 43	21,713 43
	Totals	\$244,150 36	\$ 51,946 04	\$ 1,665 48	\$297,761 88

TABLE No. 54.

**THE GENERAL FUND—DISBURSEMENTS ON THE
ORDER OF THE MAYOR.**

(For more condensed statement, see tables Nos. 52 and 53.)

Paid salaries of Mayor, the Directors of the several departments, the Mayor's Secretary and the Assistant Clerks of the Board of Control.....	\$34,939 20
Paid for advertising and stationery for the use of the Mayor and Board of Control	\$ 452 76
Paid general contingent expenses of the city*.....	4,474 15
Total supplies	4,926 91
Paid for furniture and fixtures for Mayor's and Board of Control offices.....	209 60
Total disbursements.....	\$40,075 71
*The above "contingent expenses" consisted of the following items:	
Phillips and Lawrence (attorneys in Lake Front cases)	\$3,000 00
Damages, Printing of Annual Report, stationery, etc., for Garbage Commission, City Hall Commission, River and Harbor Commission, City Flags, etc.....	1,474 15
Total	\$4,474 15

TABLE No. 55.

**THE GENERAL FUND.—DISBURSEMENTS ON THE
ORDER OF THE DIRECTOR OF PUBLIC WORKS.**

(For more condensed statement, see tables Nos. 52 and 53.)

Paid salaries of Deputy and Clerks in the office of the Director of Public Works.....	\$ 6,000 00
Paid salaries of Chief Engineer and assistants.....	61,679 36
Paid salaries of City Hall employes	7,150 08
Paid salaries of Armory employes.....	3,420 00
Paid salaries of Harbor Master and Clerk	1,440 00
Paid rent and taxes on City Hall.....	39,523 77
Total fixed charges	\$119,213 21
Paid stationery and miscellaneous supplies for office of the Director of Public Works.....	\$ 549 49
Paid for official advertising by the Director of Public Works	1,290 10
Paid for stationery and miscellaneous supplies for Chief Engineer's office	3,769 39
Paid for sewer and water connections.....	4,761 84
Paid for contingent expenses of Public Works office.....	99 81
Paid for fuel and light for City Hall	4,712 90
Paid for City Hall repairs	1,950 01
Paid for City Hall supplies.....	597 06
Total supplies	\$ 17,730 60
Paid for furniture and fixtures in Director of Public Works' office	\$ 19 01
Paid for furniture, fixtures and implements in Chief Engineer's office..	499 64
Total furniture and fixtures.....	\$ 518 65
Total disbursements.....	\$137,462 46

TABLE No. 56.

THE GENERAL FUND.—DISBURSEMENTS FOR THE
DEPARTMENT OF ACCOUNTS.

(For more condensed statement, see tables Nos. 52 and 53.)

Paid salaries of clerical force.....	\$ 115,920 00
Paid for stationery and miscellaneous supplies.....	\$2,555 69
Paid commissions for paying city bonds and coupons in New York City.	815 83
Paid for contingent expenses.....	299 85
Total supplies	\$ 3,671 37
Paid for office furniture and fixtures	99 49
Total	\$ 19,890 86

TABLE NO. 57.

**THE GENERAL FUND.—DISBURSEMENTS FOR THE
DEPARTMENT OF LAW.**

(For more condensed statement, see tables Nos. 52 and 53.)

Paid salaries of assistants to Corporation Counsel.....	\$10,000 00
Paid for stationery and miscellaneous supplies	\$ 291 53
Paid contingent expenses.....	729 75
Paid costs of court and judgments.....	4,821 68
Total supplies	\$ 5,842 96
Paid for furniture and fixtures.....	193 62
Total disbursements.....	\$16,036 58

TABLE NO. 58.

THE GENERAL FUND.—DISBURSEMENTS FOR THE
DEPARTMENT OF CHARITIES AND CORRECTION.

(For more condensed statement, see tables Nos. 52 and 53.)

Paid salary of Secretary	\$ 1,000 00
Paid for stationery and miscellaneous supplies.....	\$ 101 20
Paid for contingent expenses.....	84 24
Total supplies	\$ 185 44
Total	\$ 1,185 44

TABLE No. 59.

**THE GENERAL FUND.—DISBURSEMENTS FOR THE
LEGISLATIVE DEPARTMENT.**

(For more condensed statement, see tables Nos. 52 and 53.)

Paid salaries of Councilmen.....	\$ 5,560 00	
Paid salaries of Council officials.....	9,457 82	
Total fixed charges		\$ 15,017 82
Paid for stationery and miscellaneous supplies.....	\$ 1,988 96	
Paid for publishing ordinances, notices and Council proceedings.....	11,820 55	
Paid for serving notices.....	1,688 25	
Paid for contingent expenses.....	875 00	
Total supplies.....		16,372 76
Paid for furniture and fixtures for Clerk's office.....		191 09
Total.....		\$ 31,581 66

TABLE No. 60.

THE GENERAL FUND.—DISBURSEMENTS FOR THE
CITY TREASURER'S OFFICE.

(For more condensed statement, see tables Nos. 52 and 53.)

Paid salaries of Treasurer and assistants.....	\$ 8,615 00
Paid for stationery and miscellaneous office supplies.....	478 29
Paid for furniture and fixtures.....	66 25
Total.....	\$ 9,159 54

TABLE NO. 61.

**THE GENERAL FUND.—DISBURSEMENTS FOR THE
BOARD OF ELECTIONS.***

(For more condensed statement, see tables Nos. 52 and 53.)

Paid salaries of the members of the Board	\$ 3,359 96
Paid salaries of Secretary and assistants	3,300 31
Paid salaries of election officers	10,884 00
Paid for storage and care of booths.....	1,647 26
Total fixed charges.....	\$ 18,691 55
Paid for stationery and miscellaneous supplies.....	\$ 1,382 32
Paid for fuel and light.....	494 96
Paid for contingent expenses.....	200 00
Total supplies	2,077 27
Paid for office furniture and fixtures.....	87 35
Total.....	\$ 20,856 17

*The expenses of the Board from July 1st to January 1st are borne by the County of Cuyahoga.

TABLE No. 62.

THE GENERAL FUND.—DISBURSEMENTS ON ACCOUNT
OF JUSTICES OF THE PEACE, BOARD OF EQUALI-
ZATION AND FREE EMPLOYMENT BUREAU.

(For more condensed statement, see tables Nos. 52 and 53.)

Paid salaries of Justices of the Peace and clerks	\$ 14,400 00
Paid office rent for Justices of the Peace.....	900 00
* Paid salaries of Board of Equalization and Assessment.....	3,653 58
† Paid salaries of Free Employment Bureau (agency).....	1,800 00
Total fixed charges.....	\$ 20,753 58
Paid for stationery and supplies for Justices of the Peace.....	660 42
Paid for Justices of the Peace office furniture and fixtures.....	299 43
Total.....	\$ 21,713 43

* All other expenses of the Board are paid by Cuyahoga County.

† All other expenses of the Agency are paid by the State of Ohio.

TABLE No. 63.

BRIDGE FUND.—CLASSIFIED ANALYSIS.

(For itemized analysis, see table No. 64, and for local account, see table No. 65.)

Cash on hand January 1, 1898.....		\$ 174,056 00
RECEIPTS.		
Received from general tax	\$ 77,408 59	
Received from special assessments.....	7,500 00	
Total taxes.....		\$ 84,908 59
Received from rents.....	\$ 4,692 00	
Received from sales.....	250 50	
Total earnings.....		4,942 50
Received from loans.....		90,000 00
Received from transfers.....		692,410 00
Total receipts.....		872,261 09
Total to be accounted for.....		\$ 1,046,317 09
DISBURSEMENTS.		
Paid fixed charges and salaries.....	\$188,039 98	
Paid for maintenance.....	15,350 02	
Total operating expenses.....		\$203,390 00
Paid for institution furniture.....	\$ 7 85	
Total furniture and fixtures.....		7 85
Paid for land.....	\$ 32,278 49	
Paid for construction.....	94,788 91	
Total permanent improvements		127,067 40
Paid to redeem bonds.....	\$570,000 00	
Total loans.....		570,000 00
Total disbursements.....		900,465 25
Cash on hand January 1, 1899.....		\$ 145,851 84
ASSETS.		
Cash.....	\$145,851 84	
Institution furniture (table No. 33).....	664 40	
Public highways (table No. 41)	4,228,242 77	
Total assets.....		4,374,759 01
LIABILITIES.		
Bonds outstanding (table No. 44).....		1,951,000 00
Excess of assets		\$ 2,423 759 01

TABLE NO. 64.

BRIDGE FUND.—ITEMIZED ANALYSIS.

(For classified analysis, see table No. 63, and for local account, see table No. 65.)

Cash on hand January 1, 1898.....	\$ 174,056 00
Received from general levy of 32 cents on each \$1,000 on tax duplicate of 1897...	43,461 91
Received from one-half of county levy for bridges (table No. 6)	33,946 68
Received from Cleveland Electric Ry. Co., special tax on Willson Ave. bridge...	7,500 00
Received from C. E. Ry. for rental of Central Viaduct.....	1,500 00
Received from C. E. Ry. for rental of Superior Viaduct.....	300 00
Received from C. E. Ry. for rental of Kingsbury Viaduct.....	300 00
Received from C. C. Ry. for rental of Superior Viaduct.....	753 00
Received from M. H. Hanson for rent of building cor. Main and West River sts.	80 00
Received from Cleve'd Ship Bldg. Co. for rent of land under Superior Viaduct...	250 00
Received from N. Y., P. & O. R. R. for rent of land under Superior Viaduct.....	310 00
Received from Norcross Bros. for rent of land under Superior Viaduct	305 00
Received from Hunkin Bros. for rent of land under Main St. Bridge.....	70 00
Received from Crangle & Co. for rent of land cor. Center and W. River sts.....	825 00
Received from various parties for sales of old lumber, iron, etc.....	250 50
Received from sale of bonds.....	90,000 00
Received from transfer from Interest Fund to pay interest on Bridge Bonds.....	122,410 00
Received from transfer from Viaduct Sinking Fund to pay Viaduct Bonds.....	570,000 00
Total to be accounted for.....	\$ 1,046,317 09
Paid interest on Bridge Bonds.....	\$122,410 00
Paid salaries of bridge tenders and superintendents.....	65,629 98
Total fixed charges and salaries.....	\$188,039 98
Paid for fuel, light and sprinkling.....	\$ 1,411 09
Paid for supplies	781 47
Paid for repairers' materials.....	5,760 92
Paid for repairers' wages.....	6,788 59
Paid for contingent expenses.....	607 95
Total maintenance.....	15,350 02
Paid for station furniture.....	7 85
Paid for purchase of land.....	\$ 32,278 49
Paid for construction and reconstruction of bridges.....	94,788 91
Total permanent improvements	127,067 40
Paid for Viaduct Bonds matured.....	570,000 00
Total disbursements.....	900,485 25
Cash on hand January 1, 1899	\$ 145,831 84

TABLE No. 65.

THE BRIDGE FUND.—LOCAL ACCOUNT OF DISBURSEMENTS.

BRIDGE.	Interest.	Salaries.	Fuel, Light and Sprink- ling.	Miscel- laneous Supplies.	Repair- ers' Ma- terials.	Repair- ers' Wages.
Abbey Street Bridge.....	\$.....	\$ 1,085 50	\$ 4 78	\$.....	\$ 427 48	\$.....
Center Street Bridge.....		5,586 75	14 60		115 32	5 25
Central Viaduct.....		7,354 50	158 77	37 15	942 90	3 75
Columbus Street Bridge.....		7,086 81	32 17	2 65	348 60	8 00
Jefferson Street Bridge.....		1,919 50	9 56		127 39	
Kingsbury Viaduct.....		1,026 50			710 89	
Main Street Bridge.....		6,600 02	240 64		161 69	
Martin-Praha Street Bridge.....				2 00		
Petrie Street Bridge.....					16 75	
Seneca Street Bridge.....		6,599 98	106 10		244 81	
Middle Seneca Street Bridge...		5,684 75	11 95	2 39	133 42	
Upper Seneca Street Bridge.....		5,845 75	19 12		272 40	
Seneca Extension Bridge.....					242 00	
Swiss Street Bridge.....					1 28	
South Water Street Bridge.....						
Superior Viaduct.....		7,463 88	610 48	20 85	538 27	
Warner Road Bridge.....		94 05				
Willow Street Bridge.....		6,648 00	50 90	50	228 06	
Willetts Street Bridge.....				47 40		
Walworth Street Bridge.....		699 00	4 78		372 68	
Willson Avenue Bridge.....		313 50	10 00			
Office and Storeroom.....	122,410 00	1,671 54	137 24	668 53	877 48	6,771 59
Total.....	122,410 00	\$65,629 98	\$1,411 09	\$781 47	\$5,760 92	\$6,788 59

TABLE No. 65—Continued.

THE BRIDGE FUND.—LOCAL ACCOUNT OF DIS-
BURSEMENTS—Continued.

BRIDGE.	Conti- gent Expenses	Furni- ture.	Land.	Construc- tion and Recon- struction.	Bonds.	Totals.
Abbey Street Bridge.....	\$.....	\$.....	\$.....	\$ 6,849 93	\$.....	\$ 8,317 69
Center Street Bridge.....	.....	.....	14,500 00	484 44	.....	20,706 36
Central Viaduct.....	.....	.....	.....	17,866 16	.....	26,363 23
Columbus Street Bridge.....	2 65	.....	.....	411 22	.....	7,892 10
Jefferson Street Bridge.....	.....	.....	.....	196 57	.....	2,252 02
Kingsbury Viaduct.....	.....	.....	.....	467 10	.....	2,304 49
Main Street Bridge.....	.....	.....	.....	824 22	.....	7,826 57
Martin-Praha Street Bridge.....	.....	.....	9,116 96	6,175 92	.....	15,294 62
Petrie Street Bridge.....	.....	.....	.....	126 30	.....	143 05
Seneca Street Bridge.....	.....	.....	.....	1,294 93	.....	8,245 27
Middle Seneca Street Bridge.....	.....	.....	.....	431 25	.....	6,263 76
Upper Seneca Street Bridge.....	18 80	7 85	.....	9,369 05	.....	15,532 97
Seneca Extension Bridge.....	.....	.....	.....	1 25	.....	243 25
Swiss Street Bridge.....	.....	.....	.....	425 00	.....	426 28
South Water Street Bridge.....	.....	.....	.....	25 00	.....	25 00
Superior Viaduct.....	70 00	.....	.....	4,831 44	.....	13,534 92
Warner Road Bridge.....	.....	.....	600 00	14,628 06	.....	14,722 11
Willow Street Bridge.....	.....	.....	3,003 75	10,015 25	.....	19,946 26
Willett Street Bridge.....	.....	.....	2,569 60	8,610 75	.....	11,227 75
Walworth Street Bridge.....	.....	.....	.....	3,560 72	.....	4,637 18
Willson Avenue Bridge.....	.....	.....	2,844 24	8,196 35	.....	10,032 09
Office and Storeroom.....	516 50	.....	.....	.....	570,000 00	704,627 88
Total	\$607 95	\$7 85	\$32 278 49	\$94,788 91	570,000 00	\$900,465 25

TABLE No. 66.
STREET FUND.—CLASSIFIED ANALYSIS.

(For itemised analysis, see table No. 67.)

Cash on hand January 1, 1898.....		\$ 2,411 22
RECEIPTS.		
Received from general tax levy.....	\$120,878 43	
Received from licenses and franchises.....	7,520 00	
Total taxes.....		\$128,398 43
Received from fees.....	9,153 09	
Received from sales.....	2,912 84	
Total earnings.....		12,066 53
Received from transfers.....		15,000 00
Total receipts.....		155,464 96
Total to be accounted for.....		\$157,876 18
DISBURSEMENTS.		
Paid fixed charges and salaries.....	\$ 3,300 00	
Paid for maintenance.....	148,301 67	
Total operating expenses.....		\$151,601 67
Paid for office furniture.....		
Paid for grading and paving crosswalks.....	\$ 5,334 78	
Total permanent improvements.....		5,334 78
Total disbursements.....		156,936 45
Cash on hand January 1, 1899.....		\$ 939 73
ASSETS.		
Cash.....	\$ 939 73	
Implements (table No. 39).....	3,896 64	
Total assets.....		\$ 4,836 37
LIABILITIES.		
No liabilities.....		
Excess of assets.....		\$ 4,836 37

TABLE NO. 67.

STREET FUND.—ITEMIZED ANALYSIS.

(For classified analysis, see table No. 66.)

Cash on hand January 1, 1898.....	\$ 2,411 22
Received from general levy of 89 cents on each \$1,000 on tax duplicate of 1897.....	120,878 43
Received from 752 licenses for street cars in daily operation, at \$10 each.....	7,520 00
Received from 2,206 permits to plumbers to make water connections, at \$1.50 each..	3,309 00
Received from 2,600 permits to plumbers to make sewer connections, at \$1.50 each..	3,900 00
Received from 317 permits to open streets (table No. 13).	1,944 89
Received from various parties on account of labor and supplies furnished in re- pairing streets opened by them for various purposes.....	2,912 84
Received from transfer from Market Fund (Ordinance No. 14360).....	15,000 00
Total to be accounted for.....	\$157,876 18
Paid for salaries of superintendents.....	\$ 3,300 00
Paid for office supplies and stationery.....	\$ 115 35
Paid for miscellaneous supplies	1,593 22
Paid for cleaning paved streets	61,750 54
Paid for cleaning catch basins.....	5,721 13
Paid for wages of laborers.....	66,230 00
Paid for repair of streets	12,391 43
Total maintenance.....	\$148,301 67
Paid for grading and paving crosswalks.....	5,334 78
Total disbursements.....	156,936 45
Cash on hand January 1, 1899.....	\$ 939 73

TABLE No. 68.

WATER FUND.—CLASSIFIED ANALYSIS.

(For itemized analysis, see table No. 69, and for local account, see table No. 70.)

Cash on hand January 1, 1899.....	\$	152,308 17
RECEIPTS.		
Received from fees.....	\$654,891 00	
Received from interest.....	41,731 00	
Received from sales.....	5,231 41	
Total earnings.....	\$	701,853 41
Received from sale of bonds.....	\$300,000 00	
Received from deposits.....	518 00	
Total loans.....	300,518 00	
Total receipts.....		1,002,871 41
Total to be accounted for.....		\$ 1,154,679 58
DISBURSEMENTS.		
Paid fixed charges and salaries.....	\$201,532 69	
Paid for maintenance.....	91,648 79	
Total operating expenses.....	\$	293,181 48
Paid for station furniture.....	\$ 820 00	
Paid for machinery and implements.....	68,196 26	
Total furniture and fixtures.....		68,966 26
Paid for buildings.....	\$ 7,908 11	
Paid for pipe extension.....	439,031 29	
Paid for paving and sewerage.....	9,981 82	
Total permanent improvements.....		456,921 22
Paid for return of deposits.....	\$ 4,307 67	
Total loans.....		4,307 67
Total disbursements.....		823,866 63
Cash on hand January 1, 1899.....		\$ 331,312 95
ASSETS.		
Cash.....	\$	331,312 95
Office furniture (table No. 37).....	10,159 84	
Institution furniture (table No. 38).....	14,192 07	
Machinery and implements (table No. 39).....	734,414 52	
Land, buildings and improvements (table No. 40)...	1,221,398 16	
Water pipe system (see table No. 42).....	6,978,318 61	
Total assets.....		9,289,796 15
LIABILITIES.		
Bonds (table No. 45).....	\$ 2,387,000 00	
Deposits (table No. 51).....	17,661 11	
Total liabilities.....		2,404,661 11
Excess of assets.....		\$ 6,885,135 04

TABLE NO. 69.

WATER FUND.—ITEMIZED ANALYSIS.

(For more condensed statement, see table No. 68; for local statement, see table No. 70.)

Cash on hand January 1, 1896.....		\$ 152,308 17
Received from metered hydrants.....	\$236,675 96	
Received from assessed hydrants.....	409,523 22	
Received from builders for water used.....	3,425 09	
Received from sprinkling wagons and special sales of water.....	2,436 35	
Total.....	\$652,350 62	
Less abatements and refunders paid.....	10,530 53	\$ 642,019 80
Received from 2,270 connections to main pipe, at \$5.00		11,350 00
Received from retapping charges.....		1,521 30
Received from bills to various parties for laying large private pipes..		3,336 21
Received from bills to various parties for repairs, etc., to private pipes		1,742 36
Received from bills for postage, etc.....		163 84
Received from premium on bonds sold.....		41,731 00
Received from sale of bonds (table No. 19).....		300,000 00
Received from deposits (table No. 21).....		518 00
Total to be accounted for.....		\$ 1,154,679 58
Paid for interest on water works bonds.....	\$96,570 00	
Less accrued interest received on sale of bonds (table No. 19).....	5,244 45	\$ 91,625 55
Paid salaries of officers and employees.....	104,907 14	
Total fixed charges and salaries.....		\$201,532 69
Paid for office supplies and stationery	\$ 2,059 66	
Paid for fuel and light.....	46,113 31	
Paid for miscellaneous supplies.....	4,079 89	
Paid for repairs to machinery.....	2,911 79	
Paid for repairs to buildings and pipes.....	15,000 00	
Paid for ferrules, tapping, etc.....	11,993 84	
Paid for contingent expenses.....	9,490 30	
Total maintenance		91,648 79
Paid for station furniture.....	\$ 820 00	
Paid for boilers, engines, pumps, etc.....	68,136 26	
Total furniture and fixtures.....		68,956 26
Paid for construction of buildings.....	\$ 7,908 11	
Paid for new water pipe laid.....	439,081 29	
Paid for paving and sewerage.....	9,981 82	
Total permanent improvements.....		456,971 22
Paid for return of deposits (table No. 35).....	\$ 4,307 67	
Total loans.....		4,307 67
Total disbursements.....		823,366 63
Cash on hand January 1, 1899.....		\$ 331,312 95

TABLE No. 70.
WATER FUND.—LOCAL ACCOUNT OF DISBURSEMENTS.

PURPOSE.	General Office and Storeroom.	Division St. Station.	Fairmount Station.	Tunnel and Crib.	Pipe System.	Reservoirs.	Totals.
Interest.....	\$ 91,625 55						\$ 91,625 55
Salaries.....	51,812 89	49,368 11	6,416 11		66 50	2,744 03	109,937 14
Office supplies and stationery.....	2,059 66						2,059 66
Fuel and light.....	31 64				45 34		46,113 31
Miscellaneous supplies.....	1,632 79	43,517 98	2,479 30	37 06	354 28		4,079 89
Repairs to machinery.....		1,660 13	259 28	56 63	50 56	116 80	2,911 79
Repairs to buildings and pipes.....		2,796 51	64 70		10,614 47	79 50	15,000 00
Ferrules and tapping.....		4,127 83	178 20		11,983 84		11,983 84
Contingent expenses.....					486 23	76 00	9,490 30
Furniture.....	7,820 50	932 26	76 00	101 31			8,930 00
Boilers, pumps and machinery.....	802 80			17 70	13,662 75		68,136 25
Buildings.....		54,131 94	256 57	75 00			7,908 11
Pipe extension.....		7,908 11			194,498 34		439,031 29
Paving and grading.....		232 03		244,240 92	1,367 58		9,981 82
Deposits returned.....	4,307 67	7,236 24	1,094 20			291 80	4,307 67
Total.....	\$159,592 50	\$171,963 17	\$10,832 34	\$214,598 61	\$233,142 86	\$3,307 13	\$923,366 63

TABLE No. 71.

PARK FUND.—CLASSIFIED ANALYSIS.

(For itemized analysis, see table No. 72; and for local account, see table No. 73.)

Cash on hand January 1, 1896.....		\$ 402,787 51
RECEIPTS.		
Received from general tax.....	\$135,818 48	
Received from special assessments.....	1,996 35	
Received from licenses and franchises.....	1,985 00	
Total tax.....		\$ 139,799 83
Received from rents.....	\$ 84 00	
Received from interest.....	57,080 00	
Received from sales.....	126 00	
Total earnings.....		57,290 00
Received from sale of bonds.....	400,000 00	
Total receipts.....		597,089 83
Total to be accounted for.....		\$ 999,877 34
DISBURSEMENTS.		
Paid fixed charges and salaries.....	\$111,864 92	
Paid for maintenance.....	38,158 09	
Total operating expenses.....		\$ 150,023 01
Paid for office furniture.....	\$.....	
Paid for implements,.....	1,910 53	
Paid for animals.....		
Total furniture and fixtures.....		1,910 53
Paid for land.....	\$ 4,500 00	
Paid for buildings and structures.....	93,395 11	
Paid for grading, paving and sewerage.....	395,664 14	
Paid for fountains and fences.....	1,356 88	
Total permanent improvements.....		494,916 13
Total disbursements.....		646,849 67
Cash on hand January 1, 1899.....		\$ 353,027 67
ASSETS.		
Cash.....	\$ 353,027 67	
Office furniture (table No. 37).....	377 47	
Institution furniture (table No. 38).....	10,204 34	
Machinery and implements (table No. 39).....	8,599 32	
Land, buildings and improvements (table No. 40).....	6,433,093 24	
Total assets.....		6,805,302 04
LIABILITIES.		
Bonds (table No. 45).....		2,000,000 00
Excess of assets.....		\$ 4,805,302 04

TABLE NO. 72.
PARK FUND.—ITEMIZED ANALYSIS.

(For classified analysis, see table No. 71; and for local account, see table No. 73.)

Cash on hand January 1, 1898	\$402,787 51
Received from general levy of 50 cents on each \$1,000 on the tax duplicate of 1897...	67,909 24
Received from special interest levy of 50 cents on each \$1,000 on the tax duplicate of 1897.....	67,909 24
Received from special assessment for improvements on property abutting on parks..	1,996 35
Received from premiums on bonds sold (table No. 19).....	57,080 00
Received from sale of privileges at Wade Park.....	450 00
Received from sale of privileges at Gordon Park.....	200 00
Received from sale of privileges at Edgewater Park.....	1,335 00
Received from rent of houses on park property.....	84 00
Received from sale of lumber, sand, old barns and deer.....	126 50
Received from sale of bonds (see table No. 19).....	400,000 00
Total to be accounted for.....	\$999,877 34
Paid interest on park bonds.....	\$80,000 00
Less accrued interest received on sale of bonds (table 19).....	4,602 75
	\$ 75,397 25
Paid salaries of superintendent and police.....	33,167 67
Paid salary of secretary.....	3,000 00
Paid rent.....	300 00
Total fixed charges and salaries.....	\$111,864 92
Paid for office supplies and stationery.....	\$ 121 79
Paid for care of animals.....	1,148 02
Paid for fuel and light.	3,119 74
Paid for gardening material.....	2,199 86
Paid for labor.....	26,420 23
Paid for contingent expenses.....	5,148 45
Total maintenance	38,158 09
Paid for office furniture.....	\$.....
Paid for park furniture.....	1,910 53
Paid for animals.....	
Total furniture and fixtures.....	1,910 53
Paid for land.....	\$ 4,500 00
Paid for fountains and fences	1,356 88
Paid for grading and paving.....	300,832 24
Paid for engineering.....	32,248 24
Paid for work on Rockefeller parkway.....	62,583 66
Paid for buildings and structures.....	93,395 11
Total permanent improvements.....	494,916 13
Total disbursements.....	646,849 67
Cash on hand January 1, 1899	\$353,027 67

DEPARTMENT OF ACCOUNTS.

TABLE No. 73.

THE PARK FUND.—LOCAL ACCOUNT OF DISBURSEMENTS.

PARK.	Interest.	Supervision and Police.	Secretary.	Rent.	Office Supplies and Stationery.	Care of Animals.	Fuel and Light.	Gardening Material.	Labor.	Contingent Expenses.
Sterling Park	\$	\$ 240 00	\$	\$	\$	\$	\$	\$ 3 00	\$	\$
Franklin Park	660 00	.....	.....	.....	.....	52 00	18 50	5 75	20 47
Lake View Park	2,280 00	.....	.....	.....	.....	370 00	112 75	814 50	75 82
Gordon Parkway	3,540 00	.....	.....	.....	.....	2,013 13	703 43	4,543 24	1,141 24
Edgewater Park	3,570 00	.....	.....	.....	.....	10 25	98 83	3,562 25	283 45
Lincoln Park	1,310 00	.....	.....	.....	.....	190 88	36 50	338 70	11 45
Amherst Park	720 00	.....	.....	.....	.....	.....	10 00	321 63	75 64
Shaker Park	980 00	.....	.....	.....	.....	.....	22 15	.....	114 67
Brookside Park	1,088 92	.....	.....	.....	35 40	4 00	275 00	1,852 02	163 06
Monumental Park	828 75	.....	.....	.....	1,112 62	83 45	439 14	512 52	84 84
Wade Park	3,630 00	.....	.....	.....	.....	244 25	5 75	6,185 14	834 97
Cedar Park	2 45	.....	25 00	10 73
Edgewater Boulevard	380 00	.....	.....	.....	.....	.....	.....	.....	.....
Fairmount Park	82 50	.....	.....	.....	.....	.....	266 20	6,354 76	632 96
Cedar Glen Park	4,688 75	.....	.....	.....	.....	58 52	.....	45 00	103 41
Gordon Park	1,120 00	.....	.....	.....	.....	67 35	32 00	137 25	18 13
Fairview Park	660 00	.....	.....	.....	.....	5 35	.....	1,615 62	151 30
Clinton Park	633 75	.....	.....	.....	.....	4 90	225 62	109 96	1,399 22
Newburgh Park	121 79	.....	21 40	.....	.....	.....
Office and Undivided	75 397 25	6,750 00	3,000 00	300 00	.....	.....	.....	.....	.....	.....
Totals	\$75,397 25	\$33,167 67	\$3,000 00	\$ 300 00	\$ 121 79	\$1,148 02	\$ 3,119 74	\$ 2,199 86	\$25,420 23	\$5,148 45

TABLE No. 73—Continued.
THE PARK FUND.—LOCAL ACCOUNT OF DISBURSEMENTS.

PARK.	Park Furni- ture and Im- plements.	Rookefeller Boulevard.	Buildings and Structures.	Grading, Paving, etc.	Fountains and Fences.	Land.	Engineering.	Totals.
Sterling Park.....	\$ 34 00						27 00	243 00
Franklin Park.....	842 53			107,169 84			7,361 05	756 72
Lake View Park.....	127 00	28,023 59	9,996 95	19,634 86	47 84		4,498 90	3,712 47
Gordon Parkway.....	417 00			286 63		1,200 00	16 45	165,381 93
Edgewater Park.....				20,314 18			1,141 47	32,974 56
Lincoln Park.....				36,106 63			8,192 95	2,158 62
Ambler Park.....			672 33	35,257 95		200 00	1,726 85	23,672 24
Shaker Park.....	352 00		13,122 72	2,604 47			1,772 50	45,976 91
Brookside Park.....			2,844 23	3,179 49	1,009 70	600 00	461 44	64,029 32
Monumental Park.....							2,715 43	8,598 50
Wade Park.....		34,560 07	24,576 26	465 13			138 60	16,253 66
Cedar Parkway.....			31,127 95	3,946 44			249 53	61,920 94
Edgewater Boulevard.....				16 00		250 00	8 60	31,731 68
Fairmount Park.....				39,574 65			1,786 40	4,805 97
Cedar Glen Park.....	48 00		300 00	10,832 67			508 25	107 10
Gordon Park.....								53,640 23
Fairview Park.....								12 866 48
Clinton Park.....	90 00		4,174 17	22,493 28	299 34	2,250 00	1,486 90	852 73
Newburgh Park.....							6,825 92	33,379 88
Office and Undivided.....								98,528 28
Totals	\$ 1,910 53	\$62,583 66	\$ 98,396 11	\$ 300,832 24	\$ 1,356 88	\$ 4,500 00	\$ 32,248 24	\$646,849 67

TABLE No. 74.

POLICE FUND.—CLASSIFIED ANALYSIS.

(For itemized analysis, see table No. 75, and for local account, see table No. 76.)

Cash on hand January 1st, 1898.....		\$ 3,724 67
RECEIPTS.		
Received from general tax	\$214,593 19	
Received from liquor tax.....	144,280 23	
Received from cigarette tax.....	1,255 14	
Total taxes.....		\$360,128 56
Received from fees.....	\$ 539 70	
Received from sales	58 16	
Total earnings.....		597 86
Received from transfers.....		29,500 00
Total receipts.....		390,226 42
Total to be accounted for.....		\$393,951 09
DISBURSEMENTS.		
Paid for fixed charges and salaries	\$374,427 16	
Paid for maintenance	16,288 32	
Total operating expenses.....		\$390,715 48
Paid for institution furniture	\$ 607 39	
Paid for machinery and implements.....	608 65	
Total furniture and fixtures.....		1,216 04
Paid for buildings.....	\$.....	
Paid for grading, paving and sewerage	506 88	
Total permanent improvements		506 88
Total disbursements.....		392,438 40
Cash on hand January 1st, 1899.....		\$ 1,512 69
ASSETS.		
Cash	\$ 1,512 69	
Office furniture (table No. 37).....	1,000 00	
Institution furniture (table No. 38)	25,887 70	
Horses, wagons and harness (table No. 39)	40,594 27	
Land, buildings and improvements (table No. 40).....	414,927 76	
Total assets.....		\$483,922 42
LIABILITIES.		
Bonds (table No. 45).....		\$120,000 00
Excess of assets		\$363,922 42

TABLE No. 75.

POLICE FUND.—ITEMIZED ANALYSIS.

(For classified analysis, see table No. 74, and for local account, see table No. 76.)

Cash on hand January 1, 1898.....	\$	3,724 67
Received from general levy of \$1.58 on each \$1,000 on tax duplicate of 1897		214,593 19
Received from 2¼-10 of liquor tax collection.....		144,280 23
Received from ¼ of cigarette tax collection (table No. 8).....		1,255 14
Received from fees of hayweighers.....		293 75
Received from fees of City Sealer		245 95
Received from sales of old sash, old desk, etc		58 16
Received from transfer from Interest Fund to pay interest on Police Bonds		5,000 00
Received from transfer from Market Fund		16,000 00
Received from transfer from Police Contingent Fund.....		8,500 00
Total to be accounted for	\$	393,951 09
Paid for interest on Police Bonds.....	\$	5,000 00
Paid rent.....		849 67
Paid salaries of police force		368,577 49
Paid salaries of pound-keepers		
Total fixed charges and salaries.....		\$374,427 16
Paid for office supplies and stationery		1,240 89
Paid for care of horses and wagons.....		3,574 68
Paid for fuel and light		6,500 00
Paid for miscellaneous supplies		1,163 46
Paid for repairs		2,424 40
Paid for patrol maintenance.....		1,384 89
Total maintenance		\$ 16,288 32
Paid for station furniture		607 39
Paid for horses, wagons and harness		608 65
Paid for patrol apparatus.....		
Total furniture and fixtures		1,216 04
Paid for construction of buildings		
Paid for grading, paving and sewerage		506 88
Total permanent improvements.....		506 88
Total disbursements.....		392,438 40
Cash on hand January 1, 1899.....	\$	1,512 69

TABLE No. 76.

THE POLICE FUND—LOCAL ACCOUNT OF DISBURSEMENTS.

STATIONS.	Interest.	Rents.	Salaries.	Office Supplies.	Care of Horses.	Fuel and Light.	Miscellaneous Supplies.
Headquarters.....	\$	\$	\$	\$	\$	\$	\$
1st Precinct Station.....	13 00	80 00	30 00	53 10	2 44 05	182 37	182 37
2d ".....	20 00	20 00	20 00	83 75	2 40 25	37 00	37 00
3d ".....	20 00	20 00	20 00	6 00	201 60	28 20	28 20
4th ".....	20 00	20 00	20 00	6 00	346 32	13 20	13 20
5th ".....	20 00	20 00	20 00	6 00	330 02	7 36	7 36
6th ".....	120 00	20 00	20 00	6 00	315 40	10 40	10 40
7th ".....	20 00	35 00	20 00	6 00	184 06	59 20	59 20
8th ".....	20 00	35 00	20 00	6 00	191 36	283 36	283 36
9th ".....	20 00	20 00	20 00	6 00	176 54	14 42	14 42
10th ".....	20 00	20 00	20 00	6 00	232 64	33 79	33 79
Patrol Station No. 1.....	20 00	20 00	20 00	6 50	1 298 64	27 78	27 78
Patrol Station No. 2.....	20 00	20 00	20 00	5 50	714 04	31 72	31 72
Patrol Station No. 3.....	20 00	20 00	20 00	5 50	531 32	19 61	19 61
Patrol Station No. 4.....	20 00	20 00	20 00	5 50	663 35	10 40	10 40
Patrol Station No. 5.....	20 00	20 00	20 00	5 50	260 38	61 07	61 07
Patrol Station No. 6.....	20 00	20 00	20 00	5 50	6 00	46 52	46 52
Patrol Station No. 7.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 8.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 9.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 10.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 11.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 12.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 13.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 14.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 15.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 16.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 17.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 18.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 19.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 20.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 21.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 22.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 23.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 24.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 25.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 26.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 27.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 28.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 29.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 30.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 31.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 32.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 33.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 34.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 35.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 36.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 37.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 38.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 39.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 40.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 41.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 42.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 43.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 44.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 45.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 46.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 47.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 48.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 49.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 50.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 51.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 52.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 53.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 54.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 55.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 56.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 57.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 58.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 59.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 60.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 61.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 62.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 63.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 64.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 65.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 66.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 67.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 68.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 69.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 70.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 71.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 72.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 73.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 74.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 75.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 76.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 77.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 78.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 79.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 80.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 81.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 82.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 83.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 84.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 85.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 86.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 87.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 88.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 89.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 90.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 91.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 92.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 93.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 94.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 95.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 96.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 97.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 98.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 99.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 100.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 101.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 102.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 103.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 104.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 105.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 106.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 107.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 108.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 109.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 110.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 111.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 112.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 113.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 114.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 115.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 116.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 117.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 118.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 119.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 120.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 121.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 122.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 123.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 124.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 125.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 126.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 127.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 128.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 129.....	20 00	20 00	20 00	5 50	6 00	567 60	567 60
Patrol Station No. 130.....	20 00	20 00	20 00	5 50	6		

TABLE No. 76—Continued.

THE POLICE FUND.—LOCAL ACCOUNT OF DISBURSEMENTS.

STATIONS.	Repairs.	Patrol Maintenance.	Station Furniture.	Horses and Wagons.	Grading, Paving, &c.	Totals.
Headquarters.....	\$ 44 83	\$.....	\$ 114 34	\$.....	\$.....	\$ 295 27
1st Precinct Station.....	721 16	.....	200 79	.....	.....	3,712 12
2d ".....	97 31	.....	31 00	.....	.....	431 03
3d ".....	305 27	.....	11 85	.....	.....	453 72
4th ".....	64 64	.....	15 80	.....	.....	483 43
5th ".....	134 55	.....	6 80	.....	86 08	549 46
6th ".....	203 72	.....	40 43	.....	343 29	1,086 96
7th ".....	200 45	.....	19 00	.....	.....	439 91
8th ".....	49 83	.....	37 00	.....	.....	1,601 02
9th ".....	42 72	.....	40 53	.....	67 79	300 61
10th ".....	38 07	.....	.....	.....	.....	343 68
11th ".....	108 60	.....	14 33	.....	.....	324 72
12th ".....	46 02	.....	16 76	.....	.....	337 83
Patrol Station No. 1.....	26 86	.....	4 40	402 55	25 05	1,969 16
" 2.....	.....	.....	5 40	205 80	.....	1,000 57
" 3.....	187 57	.....	8 25	.....	.....	821 72
" 4.....	28 70	.....	.....	1 00	34 67	805 57
" 5.....	53 70	.....	.....	.....	.....	407 48
Patrol System.....	.....	1,384 89	.....	.....	.....	1,486 96
Detectives.....	.....	.....	37 72	.....	.....	199 04
Office, Storeroom and Undivided.....	.....	.....	.....	.....	.....	376,364 00
Totals	\$ 2,424 40	\$ 1,384 89	\$ 607 39	\$ 608 65	\$ 506 88	\$ 392,438 40

TABLE No. 77.

POLICE COURT.—CLASSIFIED ANALYSIS.

(For itemized analysis, see table No. 78.)

Cash on hand January 1st, 1898.....	\$ 3,522 28
RECEIPTS.	
Received from fees	\$ 22,022 01
Total earnings.....	\$ 22,022 01
Total receipts.....	\$ 22,022 01
Total to be accounted for.....	\$ 25,544 29
DISBURSEMENTS.	
Paid for fixed charges and salaries	\$ 22,278 32
Paid for maintenance	2,222 46
Total operating expenses.....	\$ 24,500 78
Paid for office furniture	\$ 163 75
Total furniture and fixtures.....	\$ 163 75
Paid for buildings.....	\$.....
Total permanent improvements	\$.....
Total disbursements.....	\$ 24,664 53
Cash on hand January 1st, 1899.....	\$ 879 76
ASSETS.	
Cash	\$ 879 76
Office furniture (table No. 37)	2,285 30
Total assets.....	\$ 3,165 06
LIABILITIES.	
No liabilities.....	.....
Excess of assets	\$ 3,165 06

TABLE NO. 78.

POLICE COURT.—ITEMIZED ANALYSIS.

(For classified analysis, see table No. 77.)

Cash on hand January 1st, 1898.....	\$ 3,522 28
Received from fines and costs collected by Clerk of the Police Court.....	20,570 45
Received from fines and costs collected by Superintendent of Workhouse.....	1,451 56
Total to be accounted for.....	\$ 25,544 29
Paid salaries of judge and court officers.....	\$ 14,599 92
Paid salaries of interim judges	213 95
Paid witness and jurors' fees	1,219 50
Paid officers' fees (to police pension fund)	6,244 95
Total fixed charges and salaries	\$ 22,278 32
Paid for office supplies and stationery.....	\$ 1,483 47
Paid for transportation of prisoners.....	480 00
Paid for repairs to furniture.....	25 64
Paid for repairs to building	65 75
Paid for contingent expenses.	167 60
Total maintenance	2,222 46
Paid for office furniture and fixtures	163 75
Total disbursements.....	24,664 53
Cash on hand January 1st, 1899.....	\$ 879 76

TABLE No. 79.

MARKET FUND.—CLASSIFIED ANALYSIS.

(For itemized analysis, see table No. 80, and for local account, see table No. 81.)

Cash on hand January 1, 1898.....	\$	905 53
RECEIPTS.		
Received from licenses and franchisees.....	\$	8,984 00
Total taxes	\$	8,984 00
Received from rents.....	\$	37,252 83
Received from fees		4,344 41
Received from sales		75
Total earnings		41,597 99
Total receipts		50,531 99
Total to be accounted for.....	\$	51,437 52
DISBURSEMENTS.		
Paid fixed charges and salaries	\$	12,586 00
Paid for maintenance		7,080 26
Total operating expenses.....	\$	19,665 26
Paid for institution furniture		65 10
Total furniture and fixtures		65 10
Paid for grading, paving and sewerage.....		685 53
Total permanent improvements		685 53
Paid for transfers		31,000 00
Total disbursements.....		51,415 89
Cash on hand January 1, 1899	\$	21 63
ASSETS.		
Cash.....	\$	21 63
Institution furniture (table 38)		1,815 04
Land, buildings and improvements (table 40).....		166,021 11
Total assets		\$167,857 78
LIABILITIES.		
No liabilities.....		
Excess of assets		\$ 167,857 78

TABLE No. 80.

MARKET FUND.—ITEMIZED ANALYSIS.

(For classified analysis, see table No. 79, and for local account, see table No. 81.)

Cash on hand January 1st, 1898.....	\$	906 58
Received from 458 peddlers' licenses		6,224 00
Received from 271 gardeners' licenses.....		2,710 00
Received from rents of market house stalls, curbs, etc.		
Central market.....	\$	28,247 78
Pearl street market.....		8,246 67
Broadway market		758 38
		<u>37,252 83</u>
Received from fees of hay-weighers (table No. 13).....		2,019 00
Received from fees of city sealer (table No. 13).....		2,326 41
Received from sales (percentage) of weighing machine.....		75
		<u>\$ 51,437 52</u>
Total to be accounted for.....		
Paid for rents	\$	45 00
Paid officers' and employees' salaries.....		12,540 00
		<u>\$ 12,585 00</u>
Total fixed charges and salaries		
Paid for office supplies and stationery.....	\$	132 04
Paid for fuel and light		3,854 61
Paid for livery.....		600 00
Paid for miscellaneous supplies.....		137 62
Paid for repairs.....		288 90
Paid for contingent expenses.....		216 16
Paid for cleaning market houses and grounds		1,850 93
		<u>7,080 26</u>
Total maintenance		
Paid for market house fixtures		65 10
Paid for grading, paving and sewerage		685 53
Paid transfer to Police Fund (Ord. No. 19115).....	\$	16,000 00
Paid transfer to Street Fund (Ord. No. 19115).....		15,000 00
		<u>31,000 00</u>
Total transfers		
Total disbursements.....		<u>51,415 89</u>
Cash on hand January 1st, 1899.....	\$	21 63

TABLE NO. 81.
THE MARKET FUND.—LOCAL ACCOUNT OF RECEIPTS AND DISBURSEMENTS.

PURPOSE.	Central Market.	Pearl St. Market.	Broadway Market.	Office and Superintendent.	City Sealer.	Hay Weighers and Hay Market.	Licenses Clerk.	Surplus.	Totals.
RECEIPTS.									
Licenses.....	\$ 28,247 78	\$ 8,246 67	\$ 758 38	\$	\$	\$	\$ 8,934 00	\$	\$ 8,934 00
Rents.....	.....	.....	.....	.....	.....	.....	.....	.....	37,252 88
Fees.....	.....	.....	.....	.....	.....	.....	.....	.....	4,944 41
Sales.....	.....	.....	.....	.....	.....	.....	.....	.....	75
Total receipts.....	28,247 78	8,246 67	758 38	.....	2,325 41	2,019 75	8,934 00	.....	50,531 99
DISBURSEMENTS.									
Rents.....	15 00	15 00	.....	15 00	.....	.....	.....	.....	45 00
Salaries.....	1,440 00	1,440 00	720 00	4,800 00	2,100 00	2,040 00	.....	.....	12,540 00
Office supplies.....	6 00	8 00	.....	69 19	8 85	40 00	.....	.....	132 04
Fuel and light.....	2,162 15	1,211 06	129 38	284 42	.....	5 30	.....	.....	3,854 61
Livery.....	.....	.....	.....	300 00	300 00	.....	.....	.....	600 00
Miscellaneous supplies.....	92 67	7 20	9 25	25 00	.....	.....	.....	.....	137 62
Repairs.....	120 15	121 92	41 33	.....	3 50	.....	.....	.....	283 90
Contingent expenses.....	20 20	7 45	1 65	186 86	.....	.....	.....	.....	216 16
Cleaning market houses and grounds.....	50 00	15 10	.....	1,850 88	.....	.....	.....	.....	1,850 88
Market house fixtures.....	539 08	146 45	.....	.....	.....	.....	.....	.....	685 53
Grading and paving.....	.....	.....	.....	.....	.....	.....	.....	.....	65 10
Transfer.....	.....	.....	.....	.....	.....	.....	.....	31,000 00	31,000 00
Total Disbursements.....	\$ 4,445 25	\$ 2,972 18	\$ 904 61	\$ 7,511 40	\$ 2,497 15	\$ 2,085 80	.....	\$ 31,000 00	\$ 51,415 89

TABLE No. 82.

SANITARY FUND.—CLASSIFIED ANALYSIS.

(For itemised analysis, see table No. 83.)

Cash on hand January 1, 1898.....	\$ 2,316 89
RECEIPTS.	
Received from general tax.....	\$ 38,029 17
Received from licenses and franchises.....	2,641 00
Total tax.....	\$ 40,670 17
Received from fees.....	\$ 182 00
Received from sales.....	2 50
Total earnings.....	184 50
Received from sale of bonds.....	\$100,000 00
Total loans.....	100,000 00
Total receipts.....	140,854 67
Total to be accounted for.....	\$143,171 56
DISBURSEMENTS.	
Paid fixed charges and salaries.....	\$ 35,775 50
Paid for maintenance.....	6,011 56
Total operating expenses.....	\$ 41,787 14
Paid for office furniture.....	\$ 64 15
Total furniture and fixtures.....	64 15
Total disbursements.....	41,851 29
Cash on hand January 1, 1899.....	\$101,320 27
ASSETS.	
Cash.....	\$101,320 27
Office furniture (table No. 37).....	889 95
Food Inspector's apparatus (table No. 38).....	1,521 98
Land, buildings and improvements (table No. 40).....	4,065 22
Total assets.....	107,797 42
LIABILITIES.	
No Liabilities.....	
Excess of assets.....	\$107,797 42

TABLE No. 83.

SANITARY FUND.—ITEMIZED ANALYSIS.

(For classified analysis, see table No. 82.)

Cash on hand January 1, 1898.....	\$ 2,316 89
Received from general levy of 28 cents on each \$1,000 of tax duplicate of 1897.....	38,029 17
Received from 1,674 milk peddlers' licenses at \$1.00.....	1,674 00
Received from 94 licenses to slaughter at \$10.00	940 00
Received from 1 license to keep livery stable at \$1.00.....	1 00
Received from 5 master plumbers' licenses at \$5.00.....	25 00
Received from 2 master plumbers' renewals at 50c.....	1 00
Received from fees for searching records and giving certificates of death, at \$1.00 each	169 00
Received from fees for searching records and giving certificates of birth, at \$1.00 each.....	13 00
Received from sales of vaccine.....	2 50
Received from sales of bonds.....	100,000 00
Total to be accounted for.....	\$143,171 56
Paid for Officers' and Patrolmen's salaries.....	\$35,775 59
Paid for office supplies and stationery.....	\$ 610 30
Paid for fuel and light	
Paid for drugs and medicine.....	1,398 54
Paid for hospital and ambulance fees.....	365 50
Paid for removal of garbage.....	1,371 42
Paid for disinfection of garbage.....	84 00
Paid for special service.....	1,148 84
Paid for contingent expenses.....	475 30
Paid for repairs to buildings.....	78 70
Paid for Food Inspector's supplies.....	478 95
Total maintenance.....	6,011 55
Paid for office furniture.....	64 15
Total disbursements	41,851 29
Cash on hand January 1, 1899	\$101,320 27

TABLE No. 84.
CEMETERY FUND.—CLASSIFIED ANALYSIS.

(For itemised analysis, see table No. 85; and for local account, see table No. 86.)

Cash on hand January 1, 1898.....		\$ 5,882 43
RECEIPTS.		
Received from fees.....	\$12,711 00	
Received from sales.....	13,308 06	
Total earnings.....		\$ 26,109 06
Received from sale of land.....	15,000 00	
Received from transfer.....	6,000 00	
Total receipts.....		47,109 06
Total to be accounted for.....		\$ 52,991 49
DISBURSEMENTS.		
Paid for fixed charges and salaries.....	\$ 6,532 00	
Paid for maintenance.....	16,285 99	
Total operating expenses.....		\$ 22,817 99
Paid for institution furniture.....	\$ 32 47	
Total furniture and fixtures.....		32 47
Paid for land.....	\$ 5,517 00	
Paid for grading and improving.....	23,242 91	
Total permanent improvements.....		28,759 91
Total disbursements.....		51,610 37
Cash on hand January 1, 1899.....		\$ 1,381 12
ASSETS.		
Cash.....	\$ 1,381 12	
Institution furniture (table No. 33).....	10,791 67	
Land, buildings and improvements (table No. 40).....	291,793 39	
Total assets.....		\$303,966 18
LIABILITIES.		
No liabilities.....		
Excess of assets.....		\$303,966 18

TABLE No. 85.

CEMETERY FUND.—ITEMIZED ANALYSIS.

(For classified analysis, see table No. 84; and for local account, see table No. 86.)

Cash on hand January 1, 1898.....	\$ 5,883 43
Received from interment fees.....	7,234 50
Received from disinterment fees	294 75
Received from grave improvement fees	4,359 00
Received from vault fees.....	922 75
Received from sale of cemetery lots.....	13,398 06
Received from sale of land to Infirmary.....	15,000 00
Received from transfer from House of Correction.....	6,000 00
Total to be accounted for.....	\$ 52,991 49
Paid for supervision and Police.....	\$ 6,532 00
Paid for office supplies and stationery.....	\$ 390 12
Paid for care of horses and wagons.....	342 89
Paid for fuel and light	114 86
Paid for gardening material.....	908 29
Paid for burial material.....	793 38
Paid for labor	13,438 55
Paid for repairs to vaults and buildings..	142 58
Paid for contingent expenses	155 32
Total maintenance.....	16,285 99
Paid for cemetery fixtures and implements.....	32 47
Paid for land.....	\$ 5,517 00
Paid for grading, paving and improving.....	23,242 91
Total permanent improvements.....	28,759 91
Total disbursements.....	51,610 37
Cash on hand January 1, 1899	\$ 1,381 12

TABLE No. 86.
THE CEMETERY FUND.—LOCAL ACCOUNT OF RECEIPTS AND DISBURSEMENTS.

PURPOSE.	Woodland Cemetery.	Brite Cemetery.	Monroe Cemetery.	Harvard Grove Cemetery.	West Park Cemetery.	Brooklyn Cemetery.	Office.	Totals.
RECEIPTS.								
Interment fees.....	\$ 4,320 25	\$ 337 75	\$ 1,993 00	\$ 683 50	\$	\$	\$	\$ 7,334 50
Disinterment fees.....	176 75	28 00	59 50	30 50	.....	.....	.....	294 75
Grave improvement fees.....	2,780 15	135 50	1,045 75	297 60	.....	.....	.....	4,259 00
Vault fees.....	650 25	84 50	148 50	39 50	.....	.....	.....	922 75
Sale of cemetery lots.....	10,531 31	207 50	1,324 50	1,434 75	.....	.....	.....	13,398 06
Sale of land.....	.....	.....	.....	.....	.....	.....	15,000 00	15,000 00
Transfers.....	.....	.....	.....	.....	.....	.....	6,000 00	6,000 00
Total receipts.....	18,458 71	793 25	4,371 25	2,485 85	.....	.....	21,000 00	47,109 06
DISBURSEMENTS.								
Supervision and police.....	3,912 00	900 00	1,000 00	720 00	.....	.....	.....	6,532 00
Office supplies and stationery.....	73 38	21 00	32 50	21 00	.....	.....	242 24	390 13
Care of horses and wagons.....	254 46	6 21	.....	.....	80 22	.....	.....	342 88
Fuel and light.....	59 86	.....	27 50	27 50	.....	.....	.....	114 86
Gardening material.....	713 44	58 50	30 84	68 00	22 71	.....	.....	898 28
Burial material.....	618 20	11 52	198 41	77 25	.....	.....	.....	793 38
Labor.....	8,985 20	865 25	2,315 30	1,188 71	125 00	144 00	.....	13,488 56
Repairs.....	80 45	.....	34 63	18 50	9 00	.....	.....	142 58
Contingent.....	2 60	.....	.....	.....	87 54	.....	65 18	155 32
Furniture.....	5 50	.....	.....	.....	58 97	.....	.....	64 47
Land.....	.....	.....	.....	.....	5,517 00	.....	.....	5,517 00
Improvement.....	.....	1,352 21	.....	.....	21,872 94	17 76	.....	23,242 91
Total disbursements.....	\$ 14,585 09	\$ 3,157 99	\$ 3,526 77	\$ 2,129 96	\$ 27,741 38	\$ 161 76	\$ 307 42	\$ 51,610 37

TABLE No. 87.
HOUSE OF CORRECTION.—CLASSIFIED ANALYSIS.

(For itemized analysis, see table No. 88.)

Cash on hand January 1, 1898.....	\$ 24,519 43
RECEIPTS.	
Received from fees.....	\$ 1,390 85
Received from sales.....	21,405 38
Received from gross profits on investments.....	25,022 59
Total earnings.....	\$ 47,818 82
Received from return of capital invested in manufactur- ing business.....	\$29,332 00
Total investments.....	29,332 00
Total receipts.....	77,150 82
Total to be accounted for.....	\$101,470 25
DISBURSEMENTS.	
Paid fixed charges and salaries.....	\$17,903 76
Paid for maintenance.....	20,958 12
Total operating expenses.....	\$ 38,861 88
Paid for institution furniture.....	\$ 226 47
Total furniture and fixtures.....	226 47
Paid for sewer and culvert.....	\$ 3,000 00
Total permanent improvements.....	3,000 00
Paid capital into manufacturing business.....	\$28,253 76
Total investments.....	28,253 76
Paid transfer.....	6,000 00
Total disbursements.....	76,942 11
Cash on hand January 1, 1899.....	\$ 25,128 14
ASSETS.	
Cash.....	\$ 25,128 14
Institution furniture and unused supplies (table No. 38).....	34,998 67
Land, buildings and improvements (table No. 40).....	313,912 99
Investments (table No. 43).....	58,012 49
Total assets.....	432,052 29
LIABILITIES.	
No liabilities.....	.....
Excess of assets.....	\$432,052 29

TABLE No. 88.

HOUSE OF CORRECTION.—ITEMIZED ANALYSIS.

(For classified analysis, see table No. 87.)

Cash on hand January 1, 1898.....	\$ 24,319 43
Received from House of Correction prisoners for costs and fines.....	1,390 85
Received from board of United States and State of Ohio prisoners.....	20,780 04
Received for transportation of prisoners	480 00
Received from sale of old rags, waste paper, etc.....	145 34
Received gross profits on brush manufacturing business	25,022 59
Received from capital invested in brush manufacturing business.....	29,332 00
Total to be accounted for.....	\$101,470 25
Paid for superintendence, supervision and guarding.....	\$17,903 76
Paid for stationery and office supplies.....	\$ 300 00
Paid for fuel, light, water and ice.....	3,395 19
Paid for miscellaneous prison supplies.....	821 81
Paid for maintenance of horses and repairs to wagons and harness.....	540 82
Paid for repairs to prison property.....	1,595 61
Paid for prison food and clothing	13,836 74
Paid for contingent expenses of prison.....	468 05
Total maintenance	20,958 12
Paid for prison furniture and fixtures.....	226 47
Paid for building, sewer and culvert.....	3,000 00
Paid for brush manufacturing purposes—stock.....	\$
Paid for manufacturing purposes—machinery.....	28,253 76
	28,253 76
Paid transfer to Cemetery Fund	6,000 00
Total disbursements.....	76,342 11
Cash on hand January 1, 1899	\$ 25,128 14

TABLE No. 89.
INFIRMARY FUND.—CLASSIFIED ANALYSIS.

(For itemized analysis, see table No. 90.)

Cash on hand January 1, 1898.....		\$ 21,403 65
RECEIPTS.		
Received from liquor tax.....	\$115,424 18	
Received from cigarette tax.....	1,255 13	
Total tax		\$116,679 31
Received from sales	\$ 24,495 83	
Total earnings.....		24,495 83
Total receipts.....		141,175 19
Total to be accounted for.....		\$162,578 84
DISBURSEMENTS.		
Paid fixed charges and salaries.....	\$ 27,254 34	
Paid for maintenance.....	89,083 13	
Total operating expenses.....		\$116,342 47
Paid for institution furniture	\$ 1,542 02	
Paid for machinery and implements.....	400 85	
Total furniture and fixtures.....		2,002 87
Paid for land.....	\$ 17,300 00	
Paid for buildings.....	13,347 80	
Paid for grading, paving and sewerage.....		
Total permanent improvements.....		30,647 80
Total disbursements.....		148,993 14
Cash on hand January 1, 1899.....		\$ 13,585 70
ASSETS.		
Cash.....	\$ 13,585 70	
Office furniture (table No. 37).....	317 50	
Institution furniture (table No. 38)	27,681 94	
Tools and implements (table No. 39).....	1,345 80	
Land, buildings and improvements (table No. 40).....	673,384 38	
Total assets.....		716,315 32
LIABILITIES.		
No liabilities.....		
Excess of assets.....		\$716,315 32

TABLE No. 90.

INFIRMARY FUND.—ITEMIZED ANALYSIS.

(For classified analysis, see table No. 89.)

Cash on hand January 1, 1898.....	\$ 21,408 65
Received from 2-10 liquor tax collection.....	115,424 18
Received from ½ cigarette tax collection (see table No. 8).....	1,255 13
Received from board of non-resident paupers.....	16,572 90
Received from board of township paupers.....	4,179 34
Received from reimbursements for transportation and burials.....	2,897 60
Received from sales of produce.....	846 04
Total to be accounted for.....	\$162,578 84
Paid for supervision, investigation and attendance.....	\$ 27,364 24
Paid for office supplies and stationery.....	\$ 649 88
Paid for hospital and infirmary supplies.....	57,495 05
Paid for farm supplies.....	287 24
Paid for care of horses and wagons	860 30
Paid for out-door relief supplies.....	22,724 15
Paid for transportation.....	1,713 99
Paid for burials.....	1,343 96
Paid for repairs.....	3,811 19
Paid for contingent expenses.....	202 28
Total maintenance.....	89,088 13
Paid for infirmary furniture.....	\$ 1,542 02
Paid for machinery and implements.....	35 25
Paid for horses and wagons.....	425 60
Total furniture.....	2,002 87
Paid for land.....	\$ 17,300 00
Paid for buildings.....	13,347 80
Paid for grading, paving and sewerage.....	
Total permanent improvements.....	30,647 80
Total disbursements.....	148 993 14
Cash on hand January 1, 1899.....	\$ 13,585 70

TABLE No. 91.

FIRE FUND.—CLASSIFIED ANALYSIS.

(For itemized analysis, see table No. 92; and for local account, see table No. 93.)

Cash on hand January 1, 1898..... \$ 19,835 21

RECEIPTS.

Received from general tax	\$446,842 79	
Total tax		\$446,842 79
Received from fees.....	\$ 6,861 85	
Received from sales	1,531 77	
Total earnings.....		\$ 8,393 62
Received from transfers.....		12,350 00
Total receipts.....		467,586 41
Total to be accounted for.....		\$ 487,211 62

DISBURSEMENTS.

Paid fixed charges and salaries.....	\$410,064 97	
Paid for maintenance	36,851 21	
Total operating expenses.....		\$446,916 18
Paid for office furniture	2 75	
Paid for institution furniture.....	591 34	
Paid for machinery and implements	5,210 15	
Total furniture and fixtures.		5,804 24
Paid for grading, paving and sewerage	\$ 697 07	
Paid for land		
Paid for buildings.....	12,069 34	
Total permanent improvements		12,766 41
Total disbursements.....		465,486 83
Cash on hand January 1, 1899.....		\$ 21,724 79

ASSETS.

Cash	\$ 21,724 79
Office furniture (table No. 37).....	975 45
Institution furniture (table No. 38).....	14,079 34
Apparatus (table No. 39).....	365,999 14
Land, buildings and improvements (table No. 40)	434,136 68
Total assets	836,915 40

LIABILITIES.

Bonds (table No. 45)	\$247,000 00
Excess of assets	589,915 40

TABLE NO. 92.

FIRE FUND.—ITEMIZED ANALYSIS.

(For classified analysis, see table No. 91; and for local account, see table No. 93.)

Cash on hand January 1, 1898.....	\$ 19,625 21	
Received from general tax levy of \$3.29 on each \$1,000 on 1897 duplicate	446,842 79	
Received from fees of Building Inspector and for moving houses.....	6,316 85	
Received from fees of Boiler Inspector.....	545 00	
Received from sales of old fire hose, horses, scrap iron, etc.....	1,581 77	
Received from transfer from interest fund to pay interest on fire bonds.....	12,350 00	
Total to be accounted for.....	\$487,211 62	
Paid for interest.....	\$ 12,350 00	
Paid for salaries of officers and employees.....	397,714 97	
Total fixed charges and salaries	\$410,064 97	
Paid for office supplies and stationery.....	\$ 614 22	
Paid for fuel, light, water and ice	8,232 18	
Paid for care of horses and harness.....	12,609 64	
Paid for repairs to apparatus.....	5,830 68	
Paid for repairs to buildings	3,101 37	
Paid for miscellaneous supplies	6,000 00	
Paid for contingent expenses.....	463 12	
Total maintenance.....	\$6,851 21	
Paid for office furniture and fixtures	\$ 2 75	
Paid for station furniture and fixtures	591 34	
Paid for apparatus.....	1,968 50	
Paid for horses and harness.....	3,341 65	
Total furniture and fixtures.....	\$5,804 24	
Paid for grading, paving, etc.....	\$ 697 07	
Paid for land.....		
Paid for buildings.....	12,069 34	
Total permanent improvements.....	12,766 41	
Total disbursements.....	465,486 83	
Cash on hand January 1, 1899.....	\$ 21,724 79	

TABLE No. 93.

THE FIRE FUND.—LOCAL ACCOUNT OF DISBURSEMENTS, 1898

	Interest.	Salaries.	Office Supplies and Sta- tionery.	Fuel and Light.	Care of Horses and Harness.	Repairs to Apparatus.	Remain- der
Office.....	\$.....	\$ 1,599 84	\$ 70 37	\$.....	\$.....	\$.....	\$.....
Signal.....		7,316 91	31 90		59 06	59 94	
Engine Co. No. 1.....		18,528 12		513 31	1,297 72	329 16	
2.....		12,728 61		231 88	346 86	155 78	
3.....		9,658 40		837 29	428 87	84 48	
4.....		9,767 38		274 40	672 28	23 44	
5.....		9,880 45		199 59	177 10	176 53	
6.....		11,367 17		211 16	511 68	190 11	
7.....		10,018 47		208 22	276 71	209 09	
8.....		9,784 60		181 87	388 21	120 10	
9.....		9,539 99		268 91	390 72	104 13	
10.....		8,921 09		204 78	486 14	13 40	
11.....		9,115 52		207 58	309 02	86 48	
12.....		9,878 03		192 82	414 64	3 60	
13.....		9,136 09		196 92	285 31	110 37	
14.....		11,118 86		212 23	446 81	167 20	
15.....		9,100 70		1,325 84		297 04	
16.....		9,882 82		168 61	291 55	14 75	
17.....		9,690 18		343 85	567 70	171 08	
18.....		11,899 52		251 33	556 63	65 67	
19.....		9,322 46		211 64	243 45	24 61	
20.....		9,126 73		210 03	361 67	302 41	
21.....		9,694 29		898 64		211 15	
22.....		9,189 20		197 66	303 15	26 82	
23.....		9,077 46		197 93	442 69	136 48	
24.....		8,707 87		171 96	306 82	18 72	
25.....		9,155 26		369 31	495 61	35 21	
26.....		5,829 24		167 58	232 55	192 66	
New house, No. 18.....				75	2 50		
Hook and Ladder Co. No. 1.....		14,347 74			194 56	197 45	
2.....		14,251 97			121 15	62 02	
3.....		9,615 12			54 00	307 39	
4.....		8,842 78			31 50	739 36	
5.....		9,471 68		82 44	242 34	17 07	
6.....		10,440 68			65 25	97 12	
7.....		9,884 78			98 26	133 63	
8.....		5,688 07			39 00		
9.....		6,817 81			62 00	31 40	
Hose Co. No. 1.....		4,836 93			154 31	77 53	
Training stable.....		2,632 50		74 12	663 25	96 41	
Chief.....		3,178 27	3 83		53 75	11 46	
1st Asst. Chief.....		2,100 00			46 25	35	
2nd.....		1,899 35			70 75	9 36	
3rd.....		1,800 00			71 04	112 64	
4th.....		1,775 04			56 50	3 65	
5th.....		1,699 92			57 50	34 49	
6th.....		1,123 32			31 75	188 81	
Superintendent Machinery.....		1,800 00			55 75	36 60	
Building Inspectors.....		6,100 08	192 44				
Boiler Inspectors.....		2,100 00	43 42		36 00	81 53	
Examiner of Engineers.....		1,500 00	15 01				
Electrician.....		1,500 00	19 34				
Undivided and storeroom.....	12,350 00	5,373 17	238 41	179 54	132 48	272 50	
Totals.....	12,350 00	397,714 97	614 22	8,232 18	12,009 64	5,830 68	3.00

TABLE NO. 93.

THE FIRE FUND—LOCAL ACCOUNT OF DISBURSEMENTS, 1898.

Miscellaneous Supplies.	Contingent Expenses.	Office Furniture.	Station Furniture.	Apparatus.	Horses and Harness.	Grading and Improving.	Buildings.	Totals.
5 21	\$ 3 00							\$ 1,678 42
643 81			6 00	241 36				8,289 98
144 91	6 94		24 75			71 22		20,980 66
52 09	2 91			39 21	6 65			18,708 08
96 12	2 18			18 50	37 34			10,674 96
32 16	1 71				34	44 21		10,818 33
88 32	1 99		86 50					10,928 47
59 29	2 30		90		1 60			12,996 74
71 53	2 04		4 50	52 50				11,276 19
36 02	1 37		45 81	36 85				10,686 17
33 16	2 06				4 50			10,499 03
38 06	1 97		2 00					9,904 32
117 35	1 26			28 00				10,138 03
38 21	2 51					31 77		10,663 26
26 08	1 59		5 00	19 67	3 60			9,815 96
53 27	1 95				5 50	84 62		12,361 03
131 47	1 46		4 75					10,891 83
34 80	1 43		5 00			33 20		10,464 51
59 10	1 76		3 00			50 54		10,988 64
37 64	2 47				9 25	171 13		13,009 30
26 29	1 89		6 00		23			9,754 24
30 33	1 37							10,041 42
113 01	66 60		7 00					11,011 50
68 52	1 85							9,796 83
35 38	1 22		4 15					9,911 29
27 61	1 83							9,247 66
37 12	1 43				75			10,048 70
441 40	7 08		274 19	90 00	46 50	110 00	2,605 27	10,063 82
							9,408 87	9,407 12
78 79	4 26		19 80	214 00	27			15,088 49
47 16	3 26		3 15	62 00				14,562 82
24 07	2 20							10,007 26
21 26	1 11							9,646 97
30 61	2 09					51 91		9,925 11
35 66	1 63							10,641 38
23 09	2 52							10,147 66
17 68	1 01							5,756 17
16 84	2 02							6,924 57
15 09	89		4 40					5,104 01
71 30	55				5 00			3,651 20
				300 00				3,546 81
6 34				300 00	1 64			2,454 58
77				175 00	2 75			2,158 48
4 80					5 25			1,998 73
3 45					85			1,858 99
1 00								1,792 91
89 73			68 00	15 00	20 75			1,532 36
18 56								1,409 91
16 70	12 20	2 75						6,324 17
								2,259 96
								1,515 01
18 03	1 00							1,538 37
2,839 91	302 21					48 47		25,623 42
5,400 00	463 12	2 75	591 34	1,868 50	3,341 65	697 07	12,069 34	465,486 83

TABLE No. 94.

DREDGING FUND.—CLASSIFIED ANALYSIS.

(For itemized analysis, see table No. 95.)

Cash on hand January 1st, 1896.....	\$ 5,761 30
RECEIPTS.	
Received from general tax.....	\$ 13,581 85
Received from special assessment.....	13,938 19
Total tax.....	\$ 27,520 04
Total receipts.....	\$ 27,520 04
Total to be accounted for.....	\$ 33,281 34
DISBURSEMENTS.	
Paid for maintenance.....	\$ 25,871 46
Total operating expenses.....	\$ 25,871 46
Total disbursements.....	\$ 25,871 46
Cash on hand January 1, 1899.....	\$ 7,409 88
ASSETS.	
Cash	\$ 7,409 88
Total assets	\$ 7,409 88
LIABILITIES.	
No liabilities .....	.....
Excess of assets	\$ 7,409 88

TABLE NO. 95.

DREDGING FUND.—ITEMIZED ANALYSIS.

(For classified analysis, see table No. 94.)

Cash on hand January 1, 1898.....	\$ 5,761 30
Received from general levy of 10 cents on each \$1,000 on duplicate of 1897	13,581 85
Received from special assessment of 25 cents per foot front on river property, as per ordinance No. 22211	13,988 19
Total to be accounted for.....	\$ 33,281 34
Paid W. E. Rooney, contractor, estimates Nos. 9, 10 and final for 1897, and estimates Nos. 1 to 8 and final, incl., for 1898, for dredging Cuyahoga river bed, under contract No. 1654	\$ 21,957 75
Paid inspection on above work	1,895 94
Paid miscellaneous bills for diving, towing, stationery and supplies ...	2,017 77
Total disbursements.....	\$ 25,871 46
Cash on hand January 1, 1899.....	\$ 7,409 88

TABLE No. 96.

LIGHTING FUND.—CLASSIFIED ANALYSIS.

(For itemized analysis, see table No. 97.)

Cash on hand January 1, 1898.....		\$ 16,832 53
RECEIPTS.		
Received from general tax	\$210,518 63	
Total tax		\$ 210,518 63
Received from fees	\$ 1,221 76	
Total earnings.....		1,221 76
Total receipts.....		211,740 39
Total to be accounted for.....		\$ 228,572 92
DISBURSEMENTS.		
Paid for maintenance	\$210,431 77	
Total operating expenses.....		\$ 210,431 77
Total disbursements.....		\$ 210,431 77
Cash on hand January 1, 1899.....		\$ 18,141 15
ASSETS.		
Cash.....		\$ 18,141 15
Total assets.....		\$ 18,141 15
LIABILITIES.		
No liabilities		
Excess of assets.....		\$ 18,141 15

TABLE No. 97.

LIGHTING FUND.—ITEMIZED ANALYSIS.

(For classified analysis, see table No. 96.)

Cash on hand January 1st, 1898.....	\$ 16,832 53
Received from general levy \$1.55 on each \$1,000 on tax duplicate of 1897	210,518 63
Received from bills for lighting R. R. property	1,221 76
To be accounted for	228,572 92
Paid for street lighting—Gas.....	\$ 62,984 09
Paid for street lighting—Electricity	81,112 44
Paid for street lighting—Vapor.....	51,928 63
Paid for care of lamps, new posts, etc., including gas inspectors' salary	14,406 61
Total disbursements.....	210,431 77
Cash on hand January 1st, 1899.....	\$ 18,141 15

TABLE No. 98.

STREET INTERSECTIONS FUND.—CLASSIFIED
ANALYSIS.

Cash on hand January 1st, 1898.....	\$ 31,704 78
RECEIPTS.	
Received from general levy of 44 cents on each \$1,000 on duplicate of 1897.....	\$59,760 13
Total tax	\$59,760 13
Received from transfers from various special funds (pave-ments) on account of surplus of advances to same	\$ 4,899 34
Total transfers.....	4,899 34
Total receipts.....	\$64,659 47
Total to be accounted for	\$96,364 25
DISBURSEMENTS.	
Paid for grading and paving street intersections, and for street signs	\$17,404 55
Total permanent improvements	\$17,404 55
Paid transfers to various street improvement funds (pave-ments) to pay City's portion of same.....	\$78,582 06
Total transfers	\$78,582 06
Total disbursements	95,986 61
Cash on hand January 1st, 1899.....	\$ 377 64
ASSETS.	
Cash	\$ 377 64
Total assets.....	\$ 377 64
LIABILITIES.	
No liabilities .....	.....
Excess of assets	\$ 377 64

TABLE No. 99.

PAVING FUND.—CLASSIFIED ANALYSIS.

Cash on hand January 1st, 1898.....	\$ 48,384 83
RECEIPTS.	
Received from general levy of 40 cents on each \$1,000 on tax duplicate of 1897	\$ 54,327 39
Received from special assessments (*)	2,033 96
Total tax	\$ 56,361 34
Received from transfers from various Street Improve- ment Funds (return of advances)	\$ 1,980 78
Total transfers	1,980 73
Total receipts.....	\$ 58,292 07
Total to be accounted for.....	\$ 106,626 90
DISBURSEMENTS.	
Paid for paving in front of city property	\$ 15,693 97
Paid advances to various Street Improvement Funds (pavements) for City's portion of same.....	\$ 90,434 23
Total disbursements.....	106,128 20
Cash on hand January 1st, 1899.....	\$ 498 70
ASSETS.	
Cash	\$ 498 70
Total assets.....	498 70
LIABILITIES.	
No liabilities .....	.....
Excess of assets.....	\$ 498 70

* This amount was from special assessments (delinquent) on various special paving-funds, on which the money had been advanced from the Paving Fund.

TABLE No. 100.

INTEREST FUND.—CLASSIFIED ANALYSIS.

(For itemised analysis, see table No. 101.)

Cash on hand January 1st, 1898.....		\$ 66,597 66
RECEIPTS.		
Received from general tax	\$149,400 33	
Total tax.....		\$149,400 33
Received from interest	\$188,015 26	
Total earnings.....		188,015 26
Total receipts.....		337,415 59
Total to be accounted for.....		\$ 404,013 24
DISBURSEMENTS.		
Paid fixed charges.....	\$113,392 27	
Total operating expenses.....		\$113,392 27
Paid transfers.....		139,760 00
Total disbursements		253,052 27
Cash on hand January 1st, 1899.....		\$150,960 97
ASSETS.		
Cash.....	\$150,960 97	
Total assets.....		\$150,960 97
LIABILITIES.		
No liabilities .....		.....
Excess of assets.....		\$150,960 97

TABLE No. 101.

INTEREST FUND.—ITEMIZED ANALYSIS.

(For classified analysis, see table No. 100.)

Cash on hand January 1, 1898.....	\$ 66,597 65
Received from general levy of \$1.10 on each \$1,000 on tax duplicate of 1897.....	149,400 33
Received from Euclid Ave. National Bank, interest on average daily balances at 3.51 per cent.....	34,732 03
Received from Dime Savings & Banking Co., interest on average daily balances at 3.33 per cent.....	32,537 05
Received from State National Bank, interest on average daily balances at 2.95 per cent.....	28,553 07
Received from premium on \$90,000 Willett Street Bridge bonds sold (see table No. 19).....	12,977 11
Received from premium on \$240,000 Intercepting Sewer bonds sold (see table No. 19).....	30,086 40
Received from premium on \$100,000 Garbage Plant bonds sold (see table No. 19).....	9,937 60
Received from premium on \$250,000 River and Harbor bonds sold (see table No. 19).....	39,192 00
Total to be accounted for.....	\$404,013 24
Paid interest on general bonds (for detailed statement see table No. 22)..	\$119,084 00
Less accrued interest received on sales of Willett Bridge, Intercepting Sewer, Garbage Plant and River and Harbor bonds (see table No. 19).....	5,741 73
Net interest paid.....	\$113,292 27
Transferred to Bridge Fund to pay interest on Bridge bonds.....	122,410 00
Transferred to Police Fund to pay interest on Police bonds.....	5,000 00
Transferred to Fire Fund to pay interest on Fire Department bonds...	12,350 00
Total disbursements.....	253,052 27
Cash on hand January 1, 1898.....	\$150,960 97

TABLE No. 102.
GENERAL SINKING FUND.—CLASSIFIED ANALYSIS

(For itemized analysis, see table No. 103.)

Cash on hand January 1, 1898.....		\$ 2,751 50
RECEIPTS.		
Received from general tax	\$115,445 71	
Total tax		\$115,445 71
Received from interest.....	\$ 14,663 25	
Total earnings.....		14,663 25
Received from sale of bonds.....	\$225,000 00	
Total loans.....		225,000 00
Received from transfers.....	4,641 23	
Total receipts.....		359,750 19
Total to be accounted for.....		\$362,501 69
DISBURSEMENTS.		
Paid for improvements	\$ 9,113 44	
Total improvements.....		\$ 9,113 44
Paid to redeem bonds.....	\$338,700 00	
Total loans.....		338,700 00
Total disbursements.....		347,813 44
Cash on hand January 1, 1899.....		\$ 14,688 25
ASSETS.		
Cash.....	\$ 14,688 25	
Total assets.....		\$ 14,688 25
LIABILITIES.		
Funded Debt bonds (table No. 45).....	\$1,434,000 00	
Intercepting Sewer bonds (table No. 45).....	550,000 00	
River and Harbor bonds (table No. 45).....	750,000 00	
Garbage bonds (table No. 45).....	100,000 00	
Brooklyn bonds (table No. 45).....	6,950 00	
Total liabilities.....		2,840,950 00
Excess of liabilities.....		\$2,826,261 75

NOTE.—This Fund is maintained by annual levy of sufficient amount to redeem such General bonds maturing during the year as may be deemed to the best interests of the city to pay at maturity. Surplus of "Unclaimed Money" (table No. 111) is also turned into this Fund from time to time whenever such surplus exceeds the amount of \$2,000. Whatever balance remains after paying bonds as above, is retained in the City Treasury to credit of this Fund to apply on following year's obligations.

TABLE NO. 103.

GENERAL SINKING FUND.—ITEMIZED ANALYSIS.

(For classified analysis, see table No. 102.)

Cash on hand January 1, 1893.....	\$ 2,751 50
Received from general levy of \$0.85 on each \$1,000 on tax duplicate of 1897.....	115,445 71
Received from sale of Funded Debt bonds (see table No. 19).....	225,000 00
Received from premiums on same.....	14,663 25
Received from transfers from various street improvement funds (Brooklyn) to pay bonds, net.....	4,641 23
Total to be accounted for.....	\$362,501 69
* Paid judgment—Crocker, Stafford et al. vs. City of Cleveland ..	\$ 3,500 00
Paid Village of Glenville portion of Glenville indebtedness assessed by Annexation Commission against that portion of said village annexed to city	5,613 44
Paid Funded Debt bonds matured.....	334,000 00
Paid Brooklyn bonds matured	4,700 00
Total disbursements.....	347,813 44
Cash on hand January 1, 1899.....	\$ 14,688 25

* NOTE.—This judgment against the city on account of Herald street opening, the cash balance of which fund was closed out into General Sinking Fund in 1893.

TABLE NO. 104.

VIADUCT SINKING FUND.—CLASSIFIED ANALYSIS.

(For itemised analysis, see table No. 105.)

Cash in City Treasury, January 1, 1898	\$	814 77
Assets in hands of Commissioners, January 1, 1898.....	442,868 60	
Total cash.....		\$443,683 37
RECEIPTS.		
Received from general tax.....	\$129,027 56	
Total taxes.....	\$129,027 56	
Received from interest	\$ 16,579 00	
Total earnings.....	16,579 00	
Received from sale of bonds.....	190,000 00	
Total receipts.....		335,606 56
Total to be accounted for.....		\$779,289 93
DISBURSEMENTS.		
Paid to redeem bonds.....	\$ 11,000 00	
Paid transfers.....	570,000 00	
Total disbursements.....		581,000 00
Cash in City Treasury, January 1, 1899.....	\$	842 33
Assets in hands of Commissioners, January 1, 1899.....	197,447 60	
Total cash (balance).....		\$198,289 93
ASSETS.		
Cash in City Treasury.....	\$	842 33
Cash in hands of Commissioners.....	2,327 60	
Cleveland city bonds in hands of Commissioners.....	171,000 00	
Cleveland city notes in hands of Commissioners.....	24,120 00	
Total assets.....		198,289 93
LIABILITIES.		
Viaduct bonds outstanding (table No. 45).....	\$465,000 00	
Canal bonds outstanding (table No. 45).....	150,000 00	
Total liabilities.....		615,000 00
Excess of liabilities.....		\$416,710 07

NOTE.—This fund is maintained by annual levy of sufficient amount to meet maturing Viaduct Bonds and Canal Bonds (see table No. 45). The amounts thus raised are invested by the Sinking Fund Commissioners from time to time in City of Cleveland securities (see table No. 106), and upon the maturity of said Viaduct Bonds or Canal Bonds a sufficient amount is paid into the City Treasury, upon requisition by the City Auditor, by the Sinking Fund Commissioners, from the funds so raised and invested, to meet such bonds at maturity.

TABLE NO. 105.

VIADUCT SINKING FUND.—ITEMIZED ANALYSIS.

(For classified analysis, see table No. 104.)

(For detail as to transactions, see tables Nos. 106 and 132.)

Cash in City Treasury January 1, 1898.....	\$ 814 77	
Assets in hands of Commissioners January 1, 1898.....	442,868 60	
Total cash.....		\$443,683 37
Received from general levy of \$0.95 on each \$1,000 on duplicate of 1897..		129,027 56
Received from interest on bonds in hands of Commissioners.....		13,508 96
Received from interest on city notes in hands of Commissioners.....	\$ 2,973 34	
Less accrued interest paid.....	185 16	
		2,788 18
Received from interest on deposits.....		281 86
Received from sale of Viaduct bonds (renewed).....		190,000 00
Total to be accounted for.....		\$779,289 93
Paid Canal bonds matured.....	\$ 11,000 00	
Paid transfer to Bridge Fund to pay Viaduct bonds matured.....	570,000 00	
Total disbursements.....		581,000 00
Cash in Treasury January 1, 1899.....	\$ 842 33	
Assets in hands of Commissioners January 1, 1899.....	197,447 60	
Total cash.....		\$198,289 93

TABLE NO. 106.

VIADUCT SINKING FUND.—ANALYSIS OF COMMISSIONERS' REPORT.

(For detailed report, see table No. 132.)

Cash in hands of Commissioners January 1, 1898	\$ 14,658 60
Received from sale of \$230,000 bonds held by Commissioners.....	231,968 96
Received from city notes, matured, held by Commissioners.....	11,060 00
Received from interest on bonds held by Commissioners.....	11,520 00
Received from interest on notes held by Commissioners.....	2,973 34
Received from interest on cash deposited in bank.....	261 86
Total.....	\$272,482 76
Paid into City Treasury to assist in redeeming maturing bonds.....	\$262,000 00
Paid purchase of \$7,970.00 city notes.....	7,970 00
Paid accrued interest.....	185 16
Total.....	270,155 16
Cash in hands of Commissioners, January 1, 1899.....	\$ 2,327 60
Assets in hands of Commissioners, January 1, 1899:—	
Cash in bank	\$ 2,327 60
Cleveland Sewer District No. 15, 5 per cent. bonds Nos. 1585 to 1592 inclusive, due 1901.....	8,000 00
Board of Education 4 per cent. bonds, Nos. 676 to 691 inclusive, due 1904.....	160,000 00
Cleveland Sewer District No. 18, 5 per cent. bonds, Nos. 931 to 933 inclusive, due 1907	3,000 00
Cleveland City 5 per cent. notes, due 1899 to 1904.....	24,120 00
Total.....	\$197,447 60

TABLE NO. 107.

SINKING FUND OF 1862.—CLASSIFIED ANALYSIS.

(For detail as to transactions, see tables Nos. 108 and 132.)

Assets in hands of Commissioners January 1, 1898.....	\$ 1,442,334 70
RECEIPTS.	
Received from dividends on stock.....	\$ 5,400 00
Received from interest on bonds.....	\$54,568 99
Less accrued interest and expenses paid.....	3,543 74
	51,010 25
Received from interest on city notes.....	18,005 95
Received from interest on deposits.....	87 19
Received from accretion on L. S. & M. S. stock sold.....	180,000 00
Total interest.....	\$254,508 39
Total receipts.....	254,508 39
Total to be accounted for.....	\$ 1,696,828 09
DISBURSEMENTS.	
No disbursements.....	.....
Assets in hands of Commissioners January 1, 1899.....	\$ 1,696,828 09
ASSETS.	
Bonds N. Y. C. & H. R. Ry. Co. in hands of Commissioners.....	\$360,000 00
Bonds C. & A. Bridge Co. in hands of Commissioners.....	94,000 00
Bonds Cleveland City in hands of Commissioners.....	884,000 00
Notes Cleveland City in hands of Commissioners.....	358,210 00
Cash in hands of Commissioners.....	618 09
Total assets.....	\$ 1,696,828 09
LIABILITIES.	
No liabilities.....	.....
Excess of assets.....	\$ 1,696,828 09

NOTE.—This Fund represents the accretion of investments by the city of Cleveland in certain railroad stocks and bonds, which investments were made in order to bring such railroads into and through the limits of the city. Such investments and all business connected therewith were reorganized in 1862 by acts of the General Assembly of the State of Ohio passed March 28, 1862, and ordinances of the City Council in accordance therewith, and placed under the control of the "Sinking Fund Commission." Such laws and ordinances have been from time to time amended, and now stand as per Revised Ordinances, Chapter VII. Such funds may be used for the redemption of City of Cleveland bonds not otherwise specially provided for. The amounts of such funds are invested from time to time by the Sinking Fund Commissioners, as shown above and in table No. 108.

TABLE No. 108.

SINKING FUND OF 1862.—ANALYSIS OF COMMISSIONERS' REPORT.

(For detailed report, see table No. 132.)

Cash in hands of Commissioners January 1, 1898.....	\$	428 70
Received from sale of \$190,000 bonds held by Commissioners.....		197,480 66
Received from \$12,000 bonds, matured, held by Commissioners.....		12,000 00
Received from \$172,706 notes, matured, held by Commissioners.....		172,706 00
Received from dividends on L. S. & M. S. stock.....		5,400 00
Received from sale of L. S. & M. S. Stock (exchanged for N. Y. C. & H. R. Ry. bonds).....		360,000 00
Received from interest on bonds held by Commissioners.....		47,073 33
Received from interest on city notes held by Commissioners.....		18,005 96
Received from interest on cash deposits in bank.....		87 19
Total.....	\$	813,181 83
Paid for purchase of \$360,000 N. Y. C. & H. R. Ry. 3½ bonds.....	\$360,000 00	
Paid for purchase of \$190,000 Cleveland 4 per cent. bonds.....	190,000 00	
Paid for purchase of \$259,020 Cleveland 5 per cent. notes.....	259,020 00	
Paid accrued interest and expenses.....	3,543 74	
Total.....		812,563 74
Cash in hands of Commissioners January 1, 1899.....	\$	618 09

TABLE NO. 108—Continued.

SINKING FUND OF 1862.—ANALYSIS OF COMMISSIONERS' REPORT.

(For detailed report, see table No. 132.)

Assets in hands of Commissioners January 1, 1899:—

Cash in bank	\$ 618 09
N. Y. C. & H. R. Ry. 3½ per cent. bonds, due 1898.....	360,000 00
Atchison & Eastern Bridge Co. 4 per cent. bonds, due 1928.....	94,000 00
Cleveland Water Works 6 per cent. bonds, Nos. 731 to 743, 750 to 757, 764 to 773, 544 to 638, 662 to 727, due 1900.....	192,000 00
Cleveland Pearl Bridge 4 per cent. bonds, Nos. 11 to 35, due 1902.....	25,000 00
Cleveland Funded Debt 5 per cent. bonds, Nos. 1 to 110, due 1899.....	110,000 00
Cleveland Sewer District 15 5 per cent. bonds, Nos. 1598 to 1611, due 1901....	19,000 00
Cleveland Sewer District 10 5 per cent. bonds, Nos. 1970 to 1971, due 1902....	2,000 00
Cleveland Funded Debt 5 per cent. bonds, Nos. 2797 to 2801, due 1902	5,000 00
Cleveland Sewer District 15 5 per cent. bonds, Nos. 2810 to 2818, due 1899.....	9,000 00
Cleveland Sewer District 10 5 per cent. bonds, Nos. 2819 to 2820, due 1902.....	2,000 00
Cleveland Canal 5 per cent. bonds, Nos. 3624 to 3643, due 1908	20,000 00
Cleveland Water Works 4 per cent. bonds, Nos. 8542 to 8851, due 1917	310,000 00
Cleveland Viaduct 4 per cent. bonds, Nos. 9724 to 9913, due 1899.....	190,000 00
Cleveland 5 per cent. notes, due 1899-1904	358,210 00
Total.....	\$ 1,696,828 09

TABLE No. 109.

NEW CITY HALL SINKING FUND.—CLASSIFIED ANALYSIS.

(For detail as to transactions, see tables Nos. 110 and 132.)

Cash (assets) in hands of Commissioners January 1, 1898.....	\$271,627 60
RECEIPTS.	
Received from licenses and franchises (table No. 11).....	\$ 61,845 53
Received from interest on bonds	\$940 00
Received from interest on notes.....	\$16,369 21
Less accrued interest paid.....	1,982 10
	\$14,387 11
Received from interest on deposits.....	276 26
Total interest.....	15,603 37
Total earnings.....	\$ 77,448 90
Total receipts.....	77,448 90
Total to be accounted for.....	\$349,076 50
DISBURSEMENTS.	
No disbursements.....	
Assets in hands of Commissioners January 1, 1899.....	\$349,076 50
ASSETS.	
Bonds Cleveland City in hands of Commissioners.....	\$ 10,000 00
Notes Cleveland City in hands of Commissioners.....	339,060 00
Cash in hands of Commissioners.....	26 50
Total assets.....	349,076 50
LIABILITIES.	
No liabilities.....	
Excess of assets.....	\$349,076 50

NOTE.—Under the provisions of Section 2, of an ordinance passed June 13, 1892, by the City Council (Revised Ordinances, Chap. IV., subhead 3, § 2). The Cleveland Gas Light & Coke Co. and The People's Gas Light Co., in consideration of rights and privileges granted to said companies by such ordinance (franchise), said companies pay into the City Treasury, semi-annually, an amount equal to 8½ per cent. of their gross receipts, for the period of ten years from and after the passage of such ordinance. The money thus raised, as above, is, under the provisions of ordinances passed June 27, 1892, and April 2, 1895, turned over to the Sinking Fund Commissioners, to be by them properly invested, under the title of the "New City Hall Sinking Fund." Such funds, together with all accretions thereto, to be used in the payment of bonds and interest "which may be issued for the purpose of paying the cost and expense of erecting and furnishing a City Hall for said city." Revised Ordinances, Chap. VII., subhead 4, Div. 5 and 6, pages 549, 550.

TABLE NO. 110.

NEW CITY HALL SINKING FUND.—ANALYSIS OF COMMISSIONERS' REPORT.

(For detailed report, see table No. 132.)

Cash in hands of Commissioners January 1, 1898.....	\$ 161 60
Received from City Treasurer (payment from Gas Companies).....	61,845 53
Received from interest on bonds held by Commissioners.....	940 00
Received from interest on notes held by Commissioners.....	16,369 21
Received from interest on cash deposited in bank.....	276 26
Received from bonds matured, held by Commissioners.....	10,000 00
Received from notes matured, held by Commissioners.....	111,126 00
Total	<u>\$200,718 60</u>
Paid for purchase of \$198,710 Cleveland 5 per cent. notes.....	\$198,710 00
Paid accrued interest.....	1,982 10
Total	<u>200,692 10</u>
Cash in hands of Commissioners January 1, 1899.....	\$ 26 50
Assets in hands of Commissioners January 1, 1899:—	
Cash in bank.....	\$ 26 50
Cleveland Sewer District 18 5 per cent. bonds, No. 5275, due 1901.....	4,000 00
Cleveland Sewer District 18 4 per cent. bonds, Nos. 8046 to 8051, due 1906.....	6,000 00
Cleveland 5 per cent notes, due 1899-1904.....	339,050 00
Total	<u>\$349,076 50</u>

TABLE NO. 111.

ART GALLERY FUND.—CLASSIFIED ANALYSIS.

Cash on hand January 1, 1898	\$5,000 00
RECEIPTS.	
No receipts	
DISBURSEMENTS.	
No disbursements	
Cash on hand January 1, 1899	\$5,000 00
ASSETS.	
Cash	\$5,000 00
LIABILITIES.	
Deposits	5,000 00

NOTE.—The above sum of \$5,000 was deposited in the City Treasury April 20, 1891, in accordance with the following resolution adopted by the Common Council May 6, 1887, viz:

"By Councilman Herriek: Whereas, the late Mary A. Warner of Painesville, Lake County, Ohio, by her last will and testament, of which she appointed Oliver K. Brooks to be the executor, left to the City of Cleveland \$5,000 towards the building of an art gallery and by the tenth clause thereof gave to said art gallery the following pictures, called 'Spanish Flower Girl,' 'Vestal Virgin,' 'Peruvian School Girl,' a carving in ivory, two old views off coast of England and 'Tired of Knitting'; and whereas the said Oliver K. Brooks is anxious to deliver to the City of Cleveland the same at such times as may serve his convenience;

Resolved, That the City of Cleveland accepts said bequests for the said fine art gallery of the said \$5,000 and the said pictures, and the Mayor of the City is hereby authorized to receive the same and receipt to the executor, Oliver K. Brooks, therefor.

The resolution was adopted."

Said sum is now held in trust for above purpose. The pictures alluded to in above resolution are in the custody of the Mayor.

TABLE No. 112.

MONROE TRUST FUND.

Cash on hand January 1, 1896.....	\$.....
RECEIPTS.	
Received donation (bequest) from Mary E. Monroe.....	\$500 00
Total donations.....	\$500 00
Received from accrued interest on same.....	\$ 5 90
Total interest.....	5 90
Total receipts.....	\$505 90
Total to be accounted for	\$505 90
DISBURSEMENTS.	
Paid to Cemetery Fund for care of grave of said Mary E. Monroe..	\$ 5 90
Total disbursements.....	5 90
Cash on hand January 1, 1899.....	\$500 00
ASSETS.	
Cash.....	\$500 00
LIABILITIES.	
No liabilities.....	.....
Excess of assets.....	\$500 00

NOTE.—This fund accrues from the bequest of Mary E. Monroe, and is placed in the City Treasury and held in trust in accordance with Resolution No. 20209 of the City Council, as follows, viz:

File No. 20209.

Mr. Hopkins: Whereas, The sum of five hundred (\$500) dollars has been bequeathed the City of Cleveland by the will of the late Mary E. Monroe; such sum to be held in trust and placed at interest, such interest to be used for the purpose of keeping in repair and decorating the cemetery lot of the said Mary E. Monroe; and,

Whereas, The said sum of five hundred (\$500) dollars has been turned over to the City's Director of Charities and Correction by the executors of the estate of the said Mary E. Monroe; therefore,

Resolved, That the Director of Charities and Correction be and he is hereby directed to deposit the same in the City Treasury; and,

Resolved, That the City Auditor be and is hereby directed to place said sum to the credit of a fund to be called the "Monroe Trust Fund," and that semi-annually upon the settlement of the City depositories with the City of Cleveland for the interest due said City of Cleveland upon its average daily balances in such depositories, the City auditor be and he is hereby directed to place to the credit of said "Monroe Trust Fund" an amount equal to the interest upon five hundred (\$500) dollars for the time such money has remained in the City Treasury and acquired interest as being a part of the City balances, at a rate of interest which shall be equal to the average of the rates paid to the City by such depositories; and,

Resolved, That such amounts of interest, or so much thereof as may be necessary, shall be used from time to time, upon the order of the Director of Charities and Correction, to keep in repair and decorate the cemetery lot and memorial of the said Mary E. Monroe, in accordance with the terms of said bequest.

TABLE No. 113.

CITY STOREROOM FUND.—CLASSIFIED ANALYSIS.

Cash on hand January 1, 1898.....	\$ 1,006 94
RECEIPTS.	
Received from sale of supplies to various departments of the city..	\$ 5,637 98
Total receipts	\$ 5,637 98
Total to be accounted for.....	\$ 7,036 92
DISBURSEMENTS.	
Paid for stationery and supplies.....	\$ 6,030 83
Total investments.....	\$ 6,030 83
Total disbursements.....	\$ 6,030 83
Cash on hand January 1, 1899.....	\$ 1,006 09
ASSETS.	
Cash	\$ 1,006 09
Investments (table 43)	2,993 91
Total assets.....	\$ 4,000 00
LIABILITIES.	
No liabilities .....	.....
Excess of assets.....	\$ 4,000 00

NOTE.—The sum of \$4,000 was set aside from the General Fund in 1892, by the City Council, to be used in the purchase of stationery and office supplies in quantities for the use of the departments of the city, thus obtaining the benefit of wholesale prices on such purchases. Such supplies are kept in the City Storeroom (Room 206 City Hall) and given out, as called for, to the departments, at cost price, on pass-books. When these pass-books are filled, vouchers are issued by the departments, reimbursing the storeroom for such supplies furnished.

TABLE No. 114.

INSPECTION FUND.—CLASSIFIED ANALYSIS.

Cash on hand January 1, 1906.....	\$	308 79
RECEIPTS.		
Received from bills from various parties for inspection of private work.....	\$	4,014 50
Total fees	\$	4,014 50
Total receipts.....	\$	4,014 50
Total to be accounted for.....	\$	4,323 29
DISBURSEMENTS.		
Paid for inspection of private work.....	\$	4,221 00
Total maintenance	\$	4,221 00
Total disbursements.....	\$	4,221 00
Cash on hand January 1, 1906.....	\$	102 29
ASSETS.		
Cash	\$	102 29
LIABILITIES.		
No liabilities		
Excess of assets.....	\$	102 29

NOTE.—When it is desired by private parties to tear up paved streets in order to repair sewer or gas pipes or lay conduits, or wires, such pavements must be relaid at the expense of the one making such opening under the direct supervision of the city. The inspectors supervising such work for the city are paid for their time from this "Inspection" Fund, and a bill rendered for same to the parties for whom such work was done. When such bills are paid the money is placed to the credit of this "Inspection" Fund.

TABLE No. 115.

UNCLAIMED MONEY FUND.—CLASSIFIED ANALYSIS.

Cash on hand January 1, 1898.....	\$	247 46
RECEIPTS.		
Received from special assessments (viz., amounts which had been advanced to various street improvement funds on account of delinquent taxes, which taxes were paid in 1898)	\$	8,664 05
Less abatements on account of same	1,626 37	
Total receipts		7,037 68
Total to be accounted for.....	\$	7,285 14
DISBURSEMENTS.		
Paid return of various amounts covered into unclaimed money, on account of not being called for. \$	175 71	
Less new amounts turned in.....	36 50	
	\$	139 21
Paid advances to various street improvement funds to cover temporary shortages on account of delinquent taxes.....	\$	11,916 15
Less amounts returned to fund on account of same.....	4,896 93	
	7,019 22	
Total disbursements		7,158 43
Cash on hand January 1, 1899	\$	126 71
ASSETS.		
Cash		126 71
LIABILITIES.		
No liabilities		
Excess of assets.....	\$	126 71

NOTE.—Under authority of an act of the General Assembly, passed March 8, 1888, and § 106 of the Revised Ordinances of the City of Cleveland, amounts of tax refundings and uncalled-for claims against the city, the address of the payee being unknown, are, after being "posted in a conspicuous place in the auditor's office for two years," paid into the "Unclaimed Money" Fund. Under the above authorities, such money in such fund may be used to advance temporarily to various funds which are "short" on account of delinquent taxes, which advances are returned to this fund when such delinquent tax is paid in. When the surplus in this fund exceeds the amount of \$2,000, such surplus is turned into the General Sinking Fund.

TABLE No. 116.

NIGHT SOIL FUND.—CLASSIFIED ANALYSIS.

Cash on hand January 1, 1898.....	\$	310 56
RECEIPTS.		
Received from fees for removal of night soil.....	\$	18,080 05
Less refunders paid.....		138 95
Total fees.....		17,941 10
Total receipts.....		17,941 10
Total to be accounted for.....		\$ 18,205 66
DISBURSEMENTS.		
Paid contractor for removal of night soil.....	\$	17,286 57
Total disbursements.....		17,286 57
Cash on hand January 1, 1899.....	\$	920 09
ASSETS.		
Cash.....	\$	920 09
LIABILITIES.		
No liabilities.....		
Excess of assets.....		\$ 920 09

NOTE.—An ordinance passed by the City Council November 9, 1891, provides that "All moneys received by the City of Cleveland to pay for the removal of night soil, and paid into the City Treasury, shall constitute a fund to be called the Night Soil Fund, and the same shall be and are hereby appropriated to and for the purpose of paying for such removal. All payments for the removal of night soil shall be made upon the estimate of the Director of Police, and the warrant of the City Auditor, but no estimate shall be made or warrant drawn until the work has been done, and then for no greater amount than has been paid into the treasury by the person or persons for whom such night soil has been removed; and no estimate shall include any removal, the money for which has not been paid to the city." (Revised Ordinances, Chap. VII., subhead 4, Division 3, page 548.) Under the terms and conditions of the above ordinance, the Night Soil Fund is maintained.

TABLE No. 117.

POLICE CONTINGENT FUND.—CLASSIFIED ANALYSIS.

Cash on hand January 1, 1898.....	\$ 8,506 45
RECEIPTS.	
Received from officers' and marshals' fees (table No. 13)	\$ 4,523 92
Total receipts.....	\$ 4,523 92
Total to be accounted for.....	\$ 13,029 37
DISBURSEMENTS.	
Paid for Secret Service to J. Vanek, Secretary	\$ 2,965 82
Total maintenance	\$ 2,965 82
Paid transfer to Police Fund	8,500 00
Total disbursements....	\$ 11,465 82
Cash on hand January 1, 1899.....	\$ 1,563 55
ASSETS.	
Cash	\$ 1,563 55
LIABILITIES.	
No liabilities	
Excess of assets.	\$ 1,563 55

NOTE.—This fund is maintained under authority of § 1941 of the Revised Statutes of the State of Ohio (73 O. L. 50, § 9; 78 O. L. 224) by the amounts received from the Police Court, consisting of two-thirds of all fees for the service by Police Officers of writs, etc., issued by said Police Court. This fund is at the service of the Director of Police for use in secret service and for "incidental or extraordinary expenses of the Police force."

TABLE No. 118.
SIDEWALK FUND.—CLASSIFIED ANALYSIS.

Cash on hand January 1, 1898.....	\$	283 11
RECEIPTS.		
Received from special assessments.....	\$	10,906 42
Less abatements paid.....		8,157 88
Total tax	\$	2,748 54
Total receipts.....		2,748 54
Total to be accounted for .....	.	\$ 3,031 65
DISBURSEMENTS.		
Paid for laying sidewalks.....	\$	1,314 49
Total permanent improvements	\$	1,314 49
Total disbursements.....		1,314 49
Cash on hand January 1, 1899.....	\$	1,717 16
ASSETS.		
Cash	\$	1,717 16
LIABILITIES.		
No liabilities		
Excess of assets	\$	1,717 16

NOTE.—This Fund is maintained by special assessments placed upon property by ordinances of the City Council, after due notice has been served upon the owners of such property to lay a sidewalk in front of such property, and the non-compliance of such owner with such notice. The money thus raised is used only in paying the cost and expense of laying such sidewalks, including the cost of necessary advertising and printing of such ordinances and cost of clerical work incident to levy of such assessment.

TABLE No. 119.

RIVER AND HARBOR FUND.—CLASSIFIED ANALYSIS.

Cash on hand January 1, 1898.....	\$ 35,169 27
RECEIPTS.	
Received from sale of bonds.....	\$250,000 00
Total loans.....	\$250,000 00
Total receipts.....	\$250,000 00
Total to be accounted for.....	\$385,169 27
DISBURSEMENTS.	
Paid for labor on Erie street extension and miscellaneous bills for same.....	\$ 7,254 47
Total disbursements.....	\$ 7,254 47
Cash on hand January 1, 1899	\$277,914 80
ASSETS.	
Cash	\$277,914 80
Highways (table No. 41).....	497,065 20
Total assets.....	\$775,000 00
LIABILITIES.	
No liabilities .....	.....
Excess of assets.....	\$775,000 00

NOTE.—This fund is the proceeds of the issuance of bonds for widening and improving the Cuyahoga river and Cleveland harbor, and the money thus raised can be used only for such purpose.

TABLE No. 120.

INTERCEPTING SEWER FUND.—CLASSIFIED ANALYSIS.

Cash on hand January 1, 1898.....	\$142,190 59
RECEIPTS.	
Received from sale of bonds	\$240,000 00
Total loans	\$240,000 00
Total receipts	\$240,000 00
Total to be accounted for.....	\$382,190 59
DISBURSEMENTS.	
Paid A. G. Hausman, contractor	\$ 33,118 07
Paid C. E. Doolittle, contractor	10,920 48
Paid Ford P. Beers, contractor.....	25,398 41
Paid L. H. Fahey, contractor.....	37,283 04
Paid inspection on above work	3,268 33
Paid various bills for engineering, etc	14,186 30
Disbursements on aco. sewers.....	\$124,184 63
Paid transfer to Lake avenue sewer	36,000 00
Total disbursements	\$160,184 63
Cash on hand January 1, 1899.....	\$222,005 96
ASSETS.	
Cash	\$222,005 96
Sewers.....	191,994 04
Total assets.....	\$414,000 00
LIABILITIES.	
No liabilities .....	.....
Excess of liabilities	\$414,000 00

NOTE.—This fund is the proceeds of the issuance of bonds for building an intercepting sewer, and extending the city sewer system, and the money thus raised can be used only for such purpose.

TABLE No. 121.

SEWER DISTRICT FUNDS.—CLASSIFIED ANALYSIS.

(For itemized analysis, see table No. 122, and for local account see table No. 123.)

Cash on hand January 1, 1898.....		\$218,480 67
RECEIPTS.		
Received from Sewer District tax	\$197,712 08	
Received from special assessment	2,557 07	
Total tax		\$200,269 15
Received from interest.....	12,549 00	
Total earnings.....		12,549 00
Received from sale of bonds.....	\$235,000 00	
Total loans		235,000 00
Received from transfers	26,438 55	
Total receipts.....		474,256 70
Total to be accounted for.....		\$682,737 37
DISBURSEMENTS.		
Paid fixed charges and salaries.....	41,831 44	
Paid for maintenance	32,258 38	
Total operating expenses		74,089 82
Paid for bonds redeemed	94,000 00	
Total loans		94,000 00
Paid transfers	273,929 09	
Total disbursements.....		442,018 91
Cash on hand January 1, 1899		\$240,718 46
ASSETS.		
Cash.....		\$240,718 46
LIABILITIES.		
Bonds (table No. 48)		1,062,000 00
Excess of liabilities.....		821,281 54

NOTE.—For explanation in full of manner of maintaining and conducting the Sewer District Fund, see table No. 136.

TABLE NO. 122.

SEWER DISTRICT FUNDS.—ITEMIZED ANALYSIS.

(For classified analysis, see table No. 121, and for local account see table No. 123).

Cash on hand January 1, 1898.....	\$208,480 07
Received from tax levy on Sewer District (see table No. 9)	\$198,458 36
Less abatements paid.....	746 28
	197,712 08
Received from special assessments	2,567 07
Received from premiums on sale of bonds (table No. 19)	12,549 00
Received from sale of bonds (table No. 19)	235,000 00
Received from transfers from various special funds (sewers) as reimbursements on account of surplus advances to same from sewer districts.....	\$26,438 55
Total to be accounted for.....	\$682,737 37
Paid interest on outstanding bonds.....	\$44,175 00
Less accrued interest returned on same (table No. 19).....	2,343 56
	\$41,831 44
Paid for repairs and supplies in the several sewer districts	32,258 38
Paid to redeem bonds matured	94,000 00
Paid transfers to various special funds (sewers) as advances to aid in construction of main sewers	273,929 09
Total disbursements.....	442,018 91
Cash on hand January 1, 1899.....	\$240,718 46

TABLE No. 123.
THE SEWER DISTRICT FUNDS.—LOCAL ACCOUNTS OF RECEIPTS AND DISBURSEMENTS.

	District No. 1.	District No. 2.	District No. 3.	District No. 4.	District No. 5.	District No. 6.	District No. 7.	District No. 8.	District No. 9.	District No. 10.	District No. 11.	District No. 12.
Cash on hand January 1, 1898...	\$16,224 91	\$ 5,364 91	\$42,829 50	\$ 2,932 78	\$ 7,192 74	\$ 899 43	\$ 9,248 96	\$ 683 40	\$ 3,662 74	\$ 433 24	\$11,287 50	\$ 6,727 63
Received from Sewer Dist. Tax	5 04		29,555 96	14,586 72	13,497 26		28,186 78	367 11		2,071 48		8,406 88
Received from interest												
Received from sale of bonds			201 84	7,742 18			590 45			1,287 27		3,802 29
Received from transfers		400 00	2,498 25									
Received from special a-s'm'ts												
Total receipts	5 04	400 00	32,286 05	22,278 90	13,497 26		28,787 23	367 11		3,358 75	8,298 36	12,209 17
Total to be accounted for	16,229 95	5,764 91	75,115 55	25,231 68	20,690 00	899 43	36,086 19	1,050 51	3,662 74	3,791 99	19,521 86	18,536 90
Paid interest			2,310 00	4,010 00	1,280 00		500 00			410 00	1,400 00	2,000 00
Paid for supplies and repairs	1,767 67	2,558 58	3,907 65	2,688 17	1,383 21	147 09	2,822 96	265 23	508 84	615 44	862 74	697 20
Paid to redeem bonds			35,000 00				10,000 00			1,040 00		
Paid assessments	1 63		66 10	16 38	9 18		100 31			1 38	16 92	71 14
Paid transfers		3,200 00	12,973 11	2,050 00	250 00		670 00		100 00	200 00	620 00	1,100 00
Total disbursements	1,769 35	5,758 58	54,256 86	8,744 55	2,923 87	147 09	14,083 27	265 23	608 84	2,216 82	2,839 66	3,868 34
Cash on hand January 1, 1899...	14,470 60	6 33	20,858 69	16,487 13	17,767 63	752 34	21,942 92	785 28	3,053 90	1,575 17	16,686 20	15,048 46

TABLE No. 123—Continued.
THE SEWER DISTRICT FUNDS.—LOCAL ACCOUNTS OF RECEIPTS AND DISBURSEMENTS.

	District No. 13.	District No. 14.	District No. 15.	District No. 16.	District No. 17.	District No. 18.	District No. 19.	District No. 20.	District No. 21.	District No. 22.	District Com. dist.	Total.
Cash on hand January 1, 1898...	\$27,698 70	\$ 6,277 34	\$12,668 34	\$16,228 35	\$10,758 88	\$115 18	\$24,516 78	\$ 135 70	\$ 2,113 81		\$ 490 35	208,480 67
Received from Sewer Dist Tax	7,640 32	5,657 86	51,906 79	9,135 27	8,569 43	5,520 88	986 34	4,540 04	915 11		401 98	198,453 36
Received from interest.....	7,921 55	633 73		3,168 64		2,534 91			633 73			14,892 56
Received from sale of bonds....	125,000 00	10,000 00		50,000 00		40,000 00			10,000 00			235,000 00
Received from trans-fers.....	255 71	1,071 75	3,120 58	2,929 71	83 60	1,000 00		2,303 17		50 00	1,600 00	26,438 55
Received from special a-s'u'ts.	53 82											2,557 07
Total receipts.....	140,876 40	17,363 34	55,027 37	65,233 62	8,593 03	49,065 59	986 34	7,143 21	11,548 84	50 00	2,001 93	477,316 54
Total to be accounted for...	168,575 10	23,640 68	67,695 71	81,461 97	19,351 91	49,170 77	26,512 12	7,278 91	13,662 15	50 00	2,492 28	685,837 21
Paid interest.....	5,020 00	3,240 00	13,405 00	5,430 00	910 00	2,840 00	920 00		480 00			44,175 00
Paid for supplies and repairs....	1,564 23	1,953 31	4,208 90	1,549 12	548 50	3,279 98	88 64	431 05	209 12	45 00	275 77	32,258 38
Paid to redeem bonds.....		2,000 00	29,000 00	8,000 00	4,000 00	5,000 00						91,000 00
Paid salaries.....	85 10	41 96	209 45	18 01	29 94	31 26		16 01	6 18		25 28	746 28
Paid transfers.....	127,025 00	15,570 00	14,570 00	39,720 00	2,310 00	20,250 00	23,000 00	1,850 00	6,351 01		2,166 94	273,929 09
Total disbursements.....	133,694 33	22,895 29	61,363 35	54,717 13	7,798 41	31,401 22	24,013 64	2,247 05	7,049 34	45 00	2,457 99	445,108 75
Cash on hand January 1, 1899...	34,880 77	835 89	6,302 36	26,744 84	11,558 47	17,769 55	1,498 48	5,081 85	6,612 81	5 00	24 29	240,719 46

TABLE NO. 124.

THE STREET IMPROVEMENT FUNDS.—CLASSIFIED ANALYSIS.

(For itemized analysis, see table No. 125, and for local account, see tables Nos. 126 to 131 inclusive.)

Cash on hand January 1, 1898.....	\$591,863 56
RECEIPTS.	
Received from special assessments	\$531,670 49
Total tax	\$531,670 49
Received from sale of notes	\$336,490 00
Total loans.....	336,490 00
Received from transfers.....	448,064 75
Total receipts	1,316,215 24
Total to be accounted for.....	\$2,408,078 80
DISBURSEMENTS.	
Paid fixed charges and salaries.....	\$ 46,227 09
Total operating expenses.....	\$ 46,227 09
Paid for sewers.....	\$522,851 25
Paid for grading, paving, etc.....	559,627 22
Total permanent improvements	1,082,478 47
Paid for bonds redeemed	\$ 22,370 00
Paid for notes redeemed.....	368,102 00
Total loans	386,472 00
Total disbursements.....	1,514,177 56
Cash on hand January 1, 1899	\$393,901 24
ASSETS.	
Cash	\$393,901 24
Highways (table No. 41)	8,890,308 19
Sewers (tables No. 42)	5,823,020 91
Total assets	15,607,230 34
LIABILITIES.	
Bonds (table No. 46).....	\$ 77,480 00
Notes (table No. 50).....	1,135,380 00
Total liabilities.....	1,212,860 00
Excess of assets.....	\$14,394,370 34

NOTE—The Street Improvement Funds are raised by special assessments placed upon property by ordinances of the City Council (see table No. 10), and the money thus raised can be used only for the purpose of paying the cost and expense of making such improvement as such ordinances call for. Whatever balance may remain in any such fund after paying for such improvement is refunded to the property owners who paid such assessment, in proportion to the amount of such assessment they have paid.

TABLE NO. 125.

THE STREET IMPROVEMENT FUNDS.—ITEMIZED
ANALYSIS.

(For classified analysis, see table No. 124, and for local account, see tables Nos. 126 to 131 inclusive.)

Cash on hand January 1, 1898.....	\$591,863 56
Received from special assessments on pavings	\$394,080 48
Received from special assessments on sewers.....	169,317 53
Received from special assessments on gradings and curbing.....	29,143 21
Received from special assessments on openings and widenings.....	31,660 80
Total taxes.....	\$624,182 02
Less abatements paid	92,511 53
Net taxes.....	531,670 49
Received from sale of notes (table No. 20).....	836,490 00
Received from transfers from various funds	\$561,024 39
Less transfers paid to various funds.....	112,969 64
Net transfers.....	448,054 75
Total to be accounted for.....	\$2,408,078 80
Paid interest on bonds and notes outstanding.....	\$ 46,227 09
Paid sewer contractors	\$488,409 29
Paid sewer inspectors.....	20,735 75
Paid sewer miscellaneous bills	13,706 21
Total sewers.....	\$522,851 25
Paid paving contractors.....	461,712 87
Paid paving inspectors	14,058 50
Paid paving miscellaneous bills.....	14,152 67
Total pavings	489,919 04
Paid grading, curbing and opening contractors	19,756 92
Paid grading, curbing and opening inspectors ..	1,230 50
Paid grading, curbing and opening misc. bills.....	48,720 76
Total	69,708 18
Total permanent improvements	1,082,478 47
Paid for bonds redeemed.....	\$ 22,370 00
Paid for notes redeemed.....	363,102 00
Total loans.....	385,472 00
Total disbursements.....	1,514,177 56
Cash on hand January 1, 1899	\$893,901 24

TABLE No. 117.

POLICE CONTINGENT FUND.—CLASSIFIED ANALYSIS.

Cash on hand January 1, 1898.....	\$ 8,506 45
RECEIPTS.	
Received from officers' and marshals' fees (table No. 13)	\$ 4,523 92
Total receipts.....	\$ 4,523 92
Total to be accounted for.....	\$ 13,029 37
DISBURSEMENTS.	
Paid for Secret Service to J. Vanek, Secretary	\$ 2,965 82
Total maintenance	\$ 2,965 82
Paid transfer to Police Fund	8,500 00
Total disbursements.....	\$ 11,465 82
Cash on hand January 1, 1899.....	\$ 1,563 55
ASSETS.	
Cash	\$ 1,563 55
LIABILITIES.	
No liabilities .....	.....
Excess of assets.	\$ 1,563 55

NOTE.—This fund is maintained under authority of § 1941 of the Revised Statutes of the State of Ohio (73 O. L. 50, § 9; 78 O. L. 224) by the amounts received from the Police Court, consisting of two-thirds of all fees for the service by Police Officers of writs, etc., issued by said Police Court. This fund is at the service of the Director of Police for use in secret service and for "incidental or extraordinary expenses of the Police force."

TABLE No. 118.

SIDEWALK FUND.—CLASSIFIED ANALYSIS.

Cash on hand January 1, 1896.....	\$	283 11
RECEIPTS.		
Received from special assessments.....	\$	10,906 42
Less abatements paid.....	\$	8,157 88
Total tax	\$	2,748 54
Total receipts.....		2,748 54
Total to be accounted for .....	.	\$ 3,681 65
DISBURSEMENTS.		
Paid for laying sidewalks.....	\$	1,314 49
Total permanent improvements	\$	1,314 49
Total disbursements.....		1,314 49
Cash on hand January 1, 1899.....	\$	1,717 16
ASSETS.		
Cash	\$	1,717 16
LIABILITIES.		
No liabilities		
Excess of assets	\$	1,717 16

NOTE.—This Fund is maintained by special assessments placed upon property by ordinances of the City Council, after due notice has been served upon the owners of such property to lay a sidewalk in front of such property, and the non-compliance of such owner with such notice. The money thus raised is used only in paying the cost and expense of laying such sidewalks, including the cost of necessary advertising and printing of such ordinances and cost of clerical work incident to levy of such assessment.

TABLE NO. 119.

RIVER AND HARBOR FUND.—CLASSIFIED ANALYSIS.

Cash on hand January 1, 1898.....		\$ 35,169 27
RECEIPTS.		
Received from sale of bonds.....	\$250,000 00	
Total loans.....	\$250,000 00	
Total receipts.....		\$250,000 00
Total to be accounted for.....		\$385,169 27
DISBURSEMENTS.		
Paid for labor on Erie street extension and miscellaneous bills for same.....	\$ 7,354 47	
Total disbursements.....		\$ 7,354 47
Cash on hand January 1, 1899		\$277,914 80
ASSETS.		
Cash	\$277,914 80	
Highways (table No. 41).....	497,085 20	
Total assets.....		\$775,000 00
LIABILITIES.		
No liabilities		
Excess of assets.....		\$775,000 00

NOTE.—This fund is the proceeds of the issuance of bonds for widening and improving the Cuyahoga river and Cleveland harbor, and the money thus raised can be used only for such purpose.

TABLE No. 120.

INTERCEPTING SEWER FUND.—CLASSIFIED ANALYSIS.

Cash on hand January 1, 1898.....	\$142,190 59
RECEIPTS.	
Received from sale of bonds	\$240,000 00
Total loans	\$240,000 00
Total receipts	\$240,000 00
Total to be accounted for.....	\$382,190 59
DISBURSEMENTS.	
Paid A. G. Hansen, contractor	\$ 33,118 07
Paid C. E. Doolittle, contractor	10,920 48
Paid Ford P. Beers, contractor.....	25,398 41
Paid L. H. Fahy, contractor.....	37,298 04
Paid inspection on above work	3,268 33
Paid various bills for engineering, etc	14,186 30
Disbursements on auct. sewers.....	\$124,184 63
Paid transfer to Lake avenue sewer	36,000 00
Total disbursements	\$160,184 63
Cash on hand January 1, 1899.....	\$222,005 96
ASSETS.	
Cash	\$222,005 96
Sewers.....	191,994 04
Total assets.....	\$414,000 00
LIABILITIES.	
No liabilities .....	.....
Excess of liabilities	\$414,000 00

NOTE.—This fund is the proceeds of the issuance of bonds for building an intercepting sewer, and extending the city sewer system, and the money thus raised can be used only for such purpose.

TABLE No. 121.

SEWER DISTRICT FUNDS.—CLASSIFIED ANALYSIS.

(For itemized analysis, see table No. 122, and for local account see table No. 123.)

Cash on hand January 1, 1898.....		\$218,480 67
RECEIPTS.		
Received from Sewer District tax	\$197,712 08	
Received from special assessment	2,557 07	
Total tax		\$200,269 15
Received from interest.....	12,549 00	
Total earnings.....		12,549 00
Received from sale of bonds.....	\$235,000 00	
Total loans		235,000 00
Received from transfers.....	26,438 55	
Total receipts.....		474,256 170
Total to be accounted for.....		\$682,737 37
DISBURSEMENTS.		
Paid fixed charges and salaries.....	41,831 44	
Paid for maintenance	32,268 38	
Total operating expenses		74,099 82
Paid for bonds redeemed	94,000 00	
Total loans		94,000 00
Paid transfers	273,929 09	
Total disbursements.....		442,018 91
Cash on hand January 1, 1899		\$240,718 46
ASSETS.		
Cash.....		\$240,718 46
LIABILITIES.		
Bonds (table No. 48)		1,062,000 00
Excess of liabilities.....		821,281 54

NOTE.—For explanation in full of manner of maintaining and conducting the Sewer District Fund, see table No. 136.

TABLE No. 122.

SEWER DISTRICT FUNDS.—ITEMIZED ANALYSIS.

(For classified analysis, see table No. 121, and for local account see table No. 123).

Cash on hand January 1, 1898.....		\$208,480 67
Received from tax levy on Sewer District (see table No. 9)	\$198,458 36	
Less abatements paid.....	745 28	
		197,712 08
Received from special assessments	2,557 07	
Received from premiums on sale of bonds (table No. 19)	12,549 00	
Received from sale of bonds (table No. 19)	235,000 00	
Received from transfers from various special funds (sewers) as reimbursements on account of surplus advances to same from sewer districts.....		\$36,488 55
Total to be accounted for.....		\$682,737 37
Paid interest on outstanding bonds.....	\$44,175 00	
Less accrued interest returned on same (table No. 19).....	2,343 56	
		\$41,831 44
Paid for repairs and supplies in the several sewer districts	32,258 38	
Paid to redeem bonds matured	94,000 00	
Paid transfers to various special funds (sewers) as advances to aid in construction of main sewers	273,929 09	
Total disbursements.....		442,018 91
Cash on hand January 1, 1899.....		\$240,718 46

TABLE NO. 123.
THE SEWER DISTRICT FUNDS.—LOCAL ACCOUNTS OF RECEIPTS AND DISBURSEMENTS.

	District No. 1.	District No. 2.	District No. 3.	District No. 4.	District No. 5.	District No. 6.	District No. 7.	District No. 8.	District No. 9.	District No. 10.	District No. 11.	District No. 12.
Cash on hand January 1, 1898...	\$16,224 91	\$ 5,364 91	\$42,829 50	\$ 2,952 78	\$ 7,192 74	\$ 889 43	\$ 9,248 96	\$ 683 40	\$ 3,682 74	\$ 433 24	\$11,257 50	\$ 6,727 63
Received from Sewer Dist. Tax	5 04		29,585 96	14,536 72	13,497 26		28,196 78	867 11		2,071 48		8,408 88
Received from interest												
Received from sale of bonds			201 84	7,742 18			560 45			1,257 27		3,592 29
Received from transfers		400 00	2,498 25									
Received from special a-s'm'ts												
Total receipts	5 04	400 00	32,286 05	22,278 90	13,497 26		28,757 23	867 11		3,358 75	8,268 36	12,909 17
Total to be accounted for	16,229 95	5,764 91	75,116 55	25,231 68	20,690 00	889 43	36,036 19	1,050 51	3,682 74	3,791 99	19,521 86	18,338 80
Paid interest			2,310 00	4,010 00	1,280 00		500 00			440 00	1,400 00	2,000 00
Paid for supplies and repairs	1,757 67	2,558 58	3,907 66	2,638 17	1,383 21	147 09	2,832 96	265 23	508 84	815 44	802 74	697 20
Paid to redeem bonds			35,000 00				10,000 00			1,000 00		
Paid abatements	1 63		66 10	16 38	9 16		100 31			1 38	16 92	71 14
Paid transfers		3,200 00	12,973 11	2,050 00	250 00		670 00		170 00	220 00	620 00	1,100 00
Total disbursements	1,759 35	6,758 58	54,256 86	8,744 55	2,922 37	147 09	14,068 27	265 23	608 84	2,216 82	2,839 66	3,868 34
Cash on hand January 1, 1899...	14,470 60	6 33	20,856 69	16,487 13	17,767 63	762 34	21,942 92	786 28	3,053 90	1,575 17	16,686 20	15,088 46

TABLE No. 123—Continued.
THE SEWER DISTRICT FUNDS.—LOCAL ACCOUNTS OF RECEIPTS AND DISBURSEMENTS.

	District No. 13.	District No. 14.	District No. 15.	District No. 16.	District No. 17.	District No. 18.	District No. 19.	District No. 20.	District No. 21.	District No. 22.	District Com'ial.	Total.
Cash on hand January 1, 1898...	\$27,698 70	\$ 6,277 34	\$12,668 34	\$16,228 35	\$10,758 88	\$ 115 18	\$24,516 78	\$ 135 70	\$ 2,113 31	\$	\$ 490 35	208,480 67
Received from Sewer Dist. Tax	7,640 32	5,657 86	51,906 79	9,135 27	8,509 43	5,520 68	995 34	4,840 04	915 11		401 98	198,458 36
Received from interest	7,921 55	633 73		3,168 64		2,534 91			633 73			14,892 58
Received from sale of bonds	125,000 00	10,000 00		50,000 00		40,000 00			10,000 00			235,000 00
Received from transfers	255 71	1,071 75	3,120 58	2,929 71	83 60	1,000 00		2,303 17		50 00	1,600 00	26,438 55
Received from special a.s.'s'w'ts.	58 82											2,657 07
Total receipts	140,876 40	17,363 34	55,027 37	65,233 62	8,593 03	49,055 59	995 34	7,143 21	11,548 84	50 00	2,001 93	477,316 54
Total to be accounted for	168,575 10	23,640 68	67,696 71	81,461 97	19,351 91	49,170 77	25,512 12	7,278 91	13,662 15	50 00	2,492 28	685,837 21
Paid interest	5,020 00	3,240 00	13,405 00	5,430 00	910 00	2,540 00	920 00		480 00			44,175 00
Paid for supplies and repairs	1,564 23	1,953 31	4,208 90	1,549 12	543 50	3,270 96	98 64	431 05	209 12	45 00	275 77	32,258 38
Paid to redeem bonds		2,000 00	20,000 00	8,000 00	4,000 00	5,000 00						91,000 00
Paid abatements	85 10	41 98	209 45	18 01	29 94	31 28		16 01	6 18		25 28	746 28
Paid transfers	127,025 00	15,570 00	14,570 00	39,720 00	2,310 00	20,250 00	23,000 00	1,850 00	6,381 04		2,166 94	273,929 09
Total disbursements	133,684 33	22,805 29	61,393 35	54,717 13	7,793 41	31,401 22	24,013 64	2,247 06	7,049 34	45 00	2,467 99	445,108 75
Cash on hand January 1, 1899...	34,880 77	835 39	6,302 36	26,744 84	11,558 47	17,769 56	1,498 48	5,081 85	6,612 81	5 00	24 29	240,718 46

TABLE No. 124.

THE STREET IMPROVEMENT FUNDS.—CLASSIFIED ANALYSIS.

(For itemized analysis, see table No. 125, and for local account, see tables Nos. 126 to 131 inclusive.)

Cash on hand January 1, 1898.....		\$591,863 56
RECEIPTS.		
Received from special assessments	\$581,670 49	
Total tax		\$581,670 49
Received from sale of notes	\$836,490 00	
Total loans.....		836,490 00
Received from transfers.....		448,064 75
Total receipts		1,816,215 24
Total to be accounted for.....		\$2,408,078 80
DISBURSEMENTS.		
Paid fixed charges and salaries.....	\$ 46,227 09	
Total operating expenses.....		\$ 46,227 09
Paid for sewers.....	\$522,851 25	
Paid for grading, paving, etc.....	559,627 22	
Total permanent improvements		1,082,478 47
Paid for bonds redeemed	\$ 22,370 00	
Paid for notes redeemed.....	368,102 00	
Total loans		385,472 00
Total disbursements.....		1,514,177 56
Cash on hand January 1, 1899		\$393,901 24
ASSETS.		
Cash		\$393,901 24
Highways (table No. 41)		8,990,308 19
Sewers (tables No. 42)		5,823,020 91
Total assets		15,607,230 34
LIABILITIES.		
Bonds (table No. 46).....	\$ 77,480 00	
Notes (table No. 50).....	1,135,380 00	
Total liabilities.....		1,212,860 00
Excess of assets.....		\$14,394,370 34

NOTE—The Street Improvement Funds are raised by special assessments placed upon property by ordinances of the City Council (see table No. 10), and the money thus raised can be used only for the purpose of paying the cost and expense of making such improvement as such ordinances call for. Whatever balance may remain in any such fund after paying for such improvement is refunded to the property owners who paid such assessment, in proportion to the amount of such assessment they have paid.

TABLE No. 125.

**THE STREET IMPROVEMENT FUNDS.—ITEMIZED
ANALYSIS.**

(For classified analysis, see table No. 124, and for local account, see tables Nos. 126 to 131 inclusive.)

Cash on hand January 1, 1898.....	\$591,863 56
Received from special assessments on pavings	\$394,060 48
Received from special assessments on sewers.....	169,817 53
Received from special assessments on gradings and curbing	29,143 21
Received from special assessments on openings and widenings.....	31,860 80
Total taxes.....	\$624,882 02
Less abatements paid	92,511 53
Net taxes.....	531,670 49
Received from sale of notes (table No. 20).....	836,490 00
Received from transfers from various funds	\$561,024 39
Less transfers paid to various funds.....	112,969 64
Net transfers.....	448,054 75
Total to be accounted for.....	\$2,408,078 80
Paid interest on bonds and notes outstanding.....	\$ 46,227 09
Paid sewer contractors	\$488,409 29
Paid sewer inspectors.....	20,735 75
Paid sewer miscellaneous bills	13,706 21
Total sewers.....	\$522,851 25
Paid paving contractors.....	461,712 87
Paid paving inspectors	14,053 50
Paid paving miscellaneous bills.....	14,152 67
Total pavings	489,919 04
Paid grading, curbing and opening contractors	19,756 92
Paid grading, curbing and opening inspectors ..	1,230 50
Paid grading, curbing and opening misc. bills.....	48,720 76
Total.....	69,708 18
Total permanent improvements	1,082,478 47
Paid for bonds redeemed.....	\$ 22,370 00
Paid for notes redeemed.....	363,102 00
Total loans.....	385,472 00
Total disbursements.....	1,514,177 56
Cash on hand January 1, 1899	\$893,901 24

TABLE NO. 126.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.						
C. R.	Street Improvement Fund.	Balance Jan. 1, 1898.	Taxes.	Transfers.	Loans.	Total Receipts.
1748	Adelbert	\$ 1,619 12	\$ 2,004 87	\$ 551 16	\$.....	\$ 4,175 15
2708	Alabama.....		4,148 27	4,500 00	11,700 00	20,348 27
2514	Alanson	179 09	901 07			1,080 16
2602	Alpha Alley.....	154 71	294 04			448 75
2580	Amesbury.....		422 98	500 00	1,800 00	2,722 98
2598	Ashley.....	1 96	791 67			793 63
2652	Atlas Alley		300 94	100 00	600 00	1,000 94
2582	Austin Alley	168 27	317 59			485 86
2588	Avon		554 79	100 00	1,500 00	2,154 79
2648	Bank		3,469 01	10,000 00	10,800 00	24,269 01
2596	Barn	235 20	619 42			854 62
1750	Bell	1,087 41	856 49	154 58		2,098 48
2682	Bell		1,794 18	250 00	7,200 00	9,244 18
2696	Beta Alley.....		940 67	200 00	2,000 00	3,140 67
2678	Bethesda				2,400 00	2,400 00
1180	Bolivar	186 07	428 72	881 53		1,496 32
2630	Bolton.....		2,372 63	2,300 00	8,100 00	12,772 63
3218	Bolton				5,000 00	5,000 00
718	Bond	1,073 88				1,073 88
3234	Bond Alley		190 63		1,500 00	1,690 63
2734	Brenton		1,543 68	91 36		1,635 04
	Forward					

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OF RECEIPTS AND DISBURSEMENTS.—PAVINGS.

[illegible]

TABLE No. 126—Continued.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.						
C. R.	Street Improvement Fund.	Balance Jan. 1, 1898.	Taxes.	Transfers.	Loans.	Total Receipts.
	<i>Forward</i>	\$.....	\$.....	\$.....	\$.....	\$.....
2484	Bridge.....	583 08	5,180 21			5,763 29
3248	Bridge.....		92 05		4,900 00	4,992 05
1634	Bright	319 57	605 78	87 93		1,013 28
1424	Broadway	306 59	1,687 30			1,993 89
2186	Broadway	776 45	714 01			1,490 46
1964	Brownell		3,385 58			3,385 58
2562	Brownell	1,426 39	979 33			2,405 72
2732	Buckley		600 00		4,000 00	4,600 00
2774	Carroll				7,200 00	7,200 00
1752	Canal.....	183 46	726 14	99 81		1,009 41
3244	Carter			5,000 00	5,000 00	10,000 00
2228	Cedar.....	393 27	845 28	800 00		2,038 55
2696	Cemetery		2,442 91		8,100 00	10,542 91
1636	Center	162 57	1,911 40	232 56		2,306 53
2562	Center	5,217 75	2,407 99			7,625 74
1570	Central.....	1,045 11	2,950 68	3,938 17		7,933 96
2556	Central	1,908 89	3,409 23			5,318 12
2744	Chapel.....				4,700 00	4,700 00
2572	Cherry.....	196 03	339 03			535 06
2578	Cherry Alley	4 90	486 35	50 00		541 25
1968	Cheshire ..	57 52	362 34			419 86
	<i>Forward</i>					

TABLE NO. 126—Continued.

OF RECEIPTS AND DISBURSEMENTS.—PAVINGS.

DISBURSEMENTS.								
Contract.	Inspection.	Miscellaneous.	Abate-ments.	Transfers.	Interest.	Loans.	Total Disburse-ments.	Balance Dec. 31, 1898.
\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
		45 00			388 50	4,440 00	4,873 50	899 79
								4,992 05
		1 07		472 71	19 50	520 00	1,013 28	
		23 25					23 25	1,970 64
					56 00	640 00	696 00	794 46
					189 00	2,160 00	2,349 00	1,036 53
684 98		46 00			198 61	900 00	1,829 59	576 13
3,828 50	241 50	40 00			60 50		4,170 50	429 50
								7,200 00
		2 66		239 00	27 75	740 00	1,009 41	
2,088 45							2,088 45	7,911 55
					157 50	1,800 00	1,957 50	81 05
8,457 25	269 50	1 00			191 25	900 00	9,819 00	723 91
		5 16		496 12	65 25	1,740 00	2,306 53	
824 88		45 00			300 00	1,600 00	2,769 88	4,855 86
		11 06		4,685 90	117 00	3,120 00	7,983 96	
		41 00			412 50	2,200 00	2,653 50	2,724 62
								4,700 00
		40 00			45 00	240 00	325 00	210 06
		86 60			67 50	380 00	514 10	27 15
					12 75	340 00	352 75	67 11

TABLE No. 126—Continued.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.						
C. R.	Street Improvement Fund.	Balance Jan. 1, 1898.	Taxes.	Transfers.	Loans.	Total Receipts.
	<i>Forward</i>	\$.....	\$.....	\$.....	\$.....	\$.....
1578	Chestnut	2,688 96	1,927 71	720 17		5,336 84
3254	Churchill		800 00		7,000 00	7,800 00
2232	Claremont	296 49	683 50			980 99
722	Clark	5,434 24				5,434 24
2620	Clark	717 84	2,287 09			3,004 93
2670	Clark		866 34	850 00	3,600 00	5,316 34
3286	Clark			100 00		100 00
2692	Cobleigh		295 82		1,350 00	1,645 82
1590	Columbus	1,069 12	2,797 09	22 51		3,888 72
3270	Cook			700 00	4,500 00	5,200 00
2038	Cornell	345 82	908 44			1,254 26
2718	Court Place		174 42		400 00	574 42
1776	Crawford	443 15	1,190 87	831 66		2,465 68
2068	Crawford	576 63	2,272 80			2,849 43
2654	Cross		623 05	150 00	1,200 00	1,973 05
1754	Croton	1,960 61	5,194 56	121 30		7,276 47
3316	Courtland				15,000 00	15,000 00
3272	Dibble				8,000 00	8,000 00
2730	Davis		965 46		3,600 00	4,565 46
2134	Dennison	1,087 72	2,359 49			3,447 21
1932	Detroit	115 21	3,388 42	517 07		4,020 70
	<i>Forward</i>					

TABLE No. 126—Continued.

OF RECEIPTS AND DISBURSEMENTS.—PAVINGS.

DISBURSEMENTS.								
Contract.	Inspection.	Miscellaneous.	Abate-ments.	Transfers.	Interest.	Loans.	Total Disburse-ments.	Balance Dec. 31, 1896.
\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
			9 80	3,438 99	68 25	1,820 00	5,336 84	
5,179 55	154 00	50 00			131 50		5,515 05	2,284 95
					45 50	520 00	565 50	364 49
								5,434 24
		41 00			375 00	2,000 00	2,416 00	588 93
4,076 99	147 00	41 00			90 00	400 00	4,754 99	561 35
		60 00					60 00	40 00
1,107 90	82 25	41 70			31 95	150 00	1,413 80	232 02
			7 96	996 51	104 25	2,780 00	3,888 72	
								5,200 00
					64 75	740 00	804 75	449 51
		42 05			7 50	80 00	129 55	444 87
		6 20		1,255 98	43 50	1,160 00	2,465 68	
					169 75	1,940 00	2,109 75	739 68
1,390 43	47 25	40 00			30 00	240 00	1,717 68	255 37
		14 67	18 56	2,200 99	182 25	4,860 00	7,276 47	
								15,000 00
								3,000 00
2,940 00	206 50	42 63			71 55	400 00	3,660 68	924 78
					504 00	1,200 00	1,704 00	1,743 21
			46 31		945 00	3,000 00	3,991 31	29 39

TABLE No. 126—Continued.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.						
C. R.	Street Improvement Fund.	Balance Jan. 1, 1898.	Taxes.	Transfers.	Loans.	Total Receipts.
	<i>Forward</i>	\$.....	\$.....	\$.....	\$.....	\$.....
1933	Detroit	1,009 76	2,036 59	566 14		3,612 49
1970	Dexter Place	241 57	269 94			511 51
3236	Duane		293 28		5,000 00	5,293 28
2716	Dubham		2,812 26	3,000 00	9,000 00	14,812 26
2550	Eastman	40 61	1,413 96	50 00		1,504 57
1734	E. Madison	40 79	4,035 87	100 00		4,176 66
2032	E. Madison	646 15	4,973 06			5,619 21
3258	E. Madison		1,150 00		12,600 00	13,750 00
1642	Elm	4,668 00	3,423 98	12 48		8,104 46
1668	Emmett	1,233 48	1,120 43	22 77		2,376 68
2642	Ensign		766 26		2,700 00	3,466 26
2614	Erie Court	127 06	2,445 85	500 00		3,072 91
479	Euclid	1,177 79		370 32		1,548 11
1778	Euclid Alley	889 79		322 18		1,211 97
2040	Euclid	2,373 19	8,441 38			10,814 57
2636	Eureka Lane		1,048 97	20 00		1,068 97
2672	Fairfield		885 60	1,700 00	3,600 00	6,185 60
1670	Fall	1,026 70	2,080 17			3,106 87
1680	Fillmore	913 11	298 16			1,211 27
2457	Fish	162 70	4,830 30	700 00		5,752 70
2600	Fountain		598 28	100 00	1,500 00	2,198 28
	<i>Forward</i>					

TABLE No. 126—Continued.

OF RECEIPTS AND DISBURSEMENTS.—PAVINGS.

DISBURSEMENTS.								
Contract.	Inspection.	Miscellaneous.	Abate-ments.	Transfers.	Interest.	Loans.	Total Disburse-ments.	Balance Dec. 31, 1898.
\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
			1 29		600 00	2,000 00	2,601 29	1,011 20
					24 50	290 00	304 50	207 01
2,569 14	108 50						2,677 64	2,615 64
10,708 20	498 75	45 96			225 00	1,000 00	12,477 91	2,334 35
		41 00			225 00	1,200 00	1,466 00	38 57
		67 00	54 83		637 50	3,400 00	4,159 33	17 33
					406 00	4,640 00	5,046 00	573 21
6 307 16	182 00						6,489 16	6,660 84
		9 50		4,548 21	126 75	3,380 00	8,104 46	
		42 34		1,969 34	15 00	400 00	2,426 68	
2,123 20	133 00	41 70			53 55	300 00	2,651 45	814 81
481 86		49 00			125 00	1,200 00	1,855 86	1,217 06
				1,548 11			1,548 11	
		45 00		1,166 97			1,211 97	
		55 00			609 00	6,980 00	7,624 00	3,190 57
355 50	94 50	40 00	565 77				1,055 77	13 20
3,182 40	315 00	40 00			90 00	400 00	4,027 40	2,158 20
		54 36		1,019 01	73 50	1,980 00	3,106 87	
		51 07		846 95	11 25	300 00	1,209 27	
		57 23		130 27	1,216 50	2,800 00	4,204 00	1,539 00
625 31	54 25	52 00			37 50	300 00	1,070 66	1,128 22

TABLE No. 126—Continued.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.						
C.R.	Street Improvement Fund.	Balance Jan. 1, 1898.	Taxes.	Transfers.	Loans.	Total Receipts.
	<i>Forward</i>	\$	\$	\$	\$	\$
2188	Frankfort	2,418 82	810 37			3,229 19
2270	Franklin Place	1,115 13	204 41			1,319 54
2740	Franklin Place	121 68		15 00		136 68
3274	Freeman			800 00	3,900 00	4,700 00
3220	Florence		277 20		8,500 00	8,777 20
1434	Genesee	60 28	1,304 15	1,361 78		2,726 21
1664	Giddings	1,560 08	906 07	304 03		2,770 18
2224	Giddings	378 84	6,736 52			7,115 36
2260	Giddings	592 03	5,048 00			5,640 03
2684	Gladstone		716 28		2,400 00	3,116 28
2656	Gould Alley		472 08			472 08
1532	Greenwood	701 92	605 68			1,307 60
2108	Greenwood	19 62	1,327 88	700 00		2,047 50
3276	Greenwood				4,500 00	4,500 00
2594	Gundry Alley	78 33	529 90			608 23
3262	Harbor				13,000 00	13,000 00
2516	Hamilton	3,136 44	2,952 25		7,000 00	13,088 69
2272	Hanover	6 25	1,004 08	300 00		1,310 33
2686	Harbor		2,513 47	2,200 00	9,000 00	13,713 47
2592	Harmon	1,552 85	1,810 72			3,363 57
1652	Harrison	45 93	225 42			271 35
	<i>Forward</i>					

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OF RECEIPTS AND DISBURSEMENTS.—PAVINGS.

DISBURSEMENTS.								
Contract.	Inspection.	Miscellaneous.	Abate-ments.	Transfers.	Interest.	Loans.	Total Disburse-ments.	Balance Dec. 31, 1896.
\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
					147 00	1,680 00	1,827 00	1,402 19
					28 00	320 00	348 00	971 54
20 86		40 00		73 64			134 50	2 18
								4,700 00
								8,777 20
			16 78	2,709 43			2,726 21	
		5 37		1,914 06	30 75	820 00	2,770 18	
		50 00			281 75	3,220 00	3,551 75	3,563 61
		40 70			750 00	4,000 00	4,790 70	849 33
2,146 20	61 25	1 70					2,209 15	907 13
		22 94	449 14				472 08	
					49 00	490 00	539 00	768 60
					292 20	1,130 00	1,422 20	625 30
								4,500 00
		40 00			42 00	480 00	562 00	46 23
								13,000 00
8,081 32	129 50	41 90			131 25	1,000 00	9,333 97	3,754 72
		40 00			94 50	1,080 00	1,214 50	96 83
9,289 00	327 25	45 12			212 85	1,000 00	10,874 22	2,839 25
1,040 00		40 00			262 50	1,400 00	2,742 50	621 07
		40 00		231 35			271 35	

TABLE No. 126—Continued.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.						
G. R.	Street Improvement Fund.	Balance Jan. 1, 1898.	Taxes.	Transfers.	Loans.	Total Receipts.
	<i>Forward</i>	\$.....	\$.....	\$.....	\$.....	\$.....
2198	Hazard	379 97	604 94			984 91
2534	Hickox	655 36	554 78		1,300 00	2,510 14
2750	Hickory Lane				1,200 00	1,200 00
1594	Hilburn	105 77	1,594 66	215 13		1,915 56
2710	Holmden		2,794 25	550 00	10,800 00	14,144 25
1878	Hough	202 09	5,845 08			6,047 17
2056	Hough	929 10	1,438 40			2,367 50
2064	Hough	2,056 76	2,412 28			4,469 04
3226	Hough Place				3,000 00	3,000 00
2754	Jay				5,500 00	5,500 00
1972	James	1,052 14	643 82			1,696 96
2660	Jersey		2,598 94	3,000 00	9,000 00	14,598 94
3200	Judd				2,600 00	2,600 00
3252	Julia				4,500 00	4,500 00
3230	Jessie				7,600 00	7,600 00
2720	Kenilworth		1,155 78	1,700 00	5,400 00	8,255 78
2580	Kent		1,755 35		4,000 00	5,755 35
2584	Kent Alley	163 96	390 28			544 24
2520	Knox	93 42	619 07			712 49
2606	La Grange	221 21	699 47			920 68
2314	Lamont	866 10	773 21			1,639 31
	<i>Forward</i>					

TABLE NO. 126—Continued.

OF RECEIPTS AND DISBURSEMENTS.—PAVINGS.

DISBURSEMENTS.								
Contract.	Inspection.	Miscellaneous.	Abate-ments.	Transfers.	Interest.	Loans.	Total Disburse-ments.	Balance Dec. 31, 1898.
\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
					49 00	500 00	609 00	375 91
1,962 10	145 25	41 90			23 20	260 00	2,432 45	77 69
								1,200 00
		2 71		294 35	58 50	1,560 00	1,915 56	
8,756 00	238 00	42 82	18 94		270 00	1,200 00	10,525 76	3,618 49
		3 76			432 25	4,940 00	5,376 01	671 16
					117 25	1,340 00	1,457 25	910 25
					211 75	2,420 00	2,631 75	1,837 29
								3,000 00
								5,500 00
					56 00	640 00	696 00	999 96
10,572 54	425 25	41 70			212 85	1,000 00	12,252 34	2,346 60
								2,600 00
								4,500 00
								7,600 00
6,949 80	236 25	40 72	70 45		135 00	600 00	8,032 22	223 56
2,935 79	49 00	41 90			75 00	800 00	3,901 69	1,853 66
		40 00			26 25	300 00	366 25	177 99
		40 00			97 50	520 00	657 50	54 99
		40 00			123 75	660 00	823 75	96 93
		40 00			99 75	1,140 00	1,279 75	359 56

TABLE No. 126—Continued.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.						
C. R.	Street Improvement Fund.	Balance Jan. 1, 1898.	Taxes.	Transfers.	Loans.	Total Receipts.
	<i>Forward</i>	\$.....	\$.....	\$.....	\$.....	\$.....
2690	Lane		488 06	650 00	1,800 00	2,938 06
2558	Lexington	6,268 52	5,397 02			11,665 54
1592	Lincoln	2,137 25				2,137 25
2632	Lincoln		2,371 18	700 00	9,000 00	12,071 18
3340	Linden		248 80			248 80
2316	Lindus	56 08	1,152 62	300 00		1,508 70
2676	Literary		2,116 23	3,300 00	8,100 00	13,516 23
2618	Luverne	982 53	1,412 49			2,395 02
2764	Lorain				1,200 00	1,200 00
2664	McLean		1,409 91	1,200 00	4,500 00	7,109 91
2034	Main	113 40	2,080 68			2,194 08
2698	Main		826 05	2,600 00	2,340 00	5,766 05
3256	Mandrake		3,000 00	100 00		3,100 00
2492	Marcy	1,469 43	2,408 75			3,878 18
2538	Mayfield	2,536 16	3,555 09			6,091 25
1656	Merwin	1,759 90	1,723 75			3,483 65
2016	Merwin	805 00	3,218 88			4,023 88
2638	Minerva		752 92		2,700 00	3,452 92
2658	Monroe		3,812 77	3,500 00	11,700 00	18,512 77
2512	Monumental Court	350 07	248 12	400 00		998 19
2526	Murray Hill	25,616 95	4,681 59	8,000 00		38,298 54
	<i>Forward</i>					

TABLE No. 126—Continued.

OF RECEIPTS AND DISBURSEMENTS.—PAVINGS.

DISBURSEMENTS.								
Contract.	Inspection.	Miscellaneous.	Abatements.	Transfers.	Interest.	Loans.	Total Disbursements.	Balance Dec. 31, 1898.
\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
2,357 16	251 25	40 00			45 00	200 00	2,903 41	34 65
3,742 74	3 50	146 88			883 36	4,000 00	8,776 48	2,889 06
					77 25	2,060 00	2,137 25	
9,871 69	199 50	40 00			225 00	1,000 00	11,336 19	784 99
								248 80
		40 00			110 25	1,260 00	1,410 25	98 45
9,986 19	322 00	47 85			202 50	900 00	11,458 54	2,067 69
791 74		40 00			231 84	1,060 00	2,113 58	281 44
								1,200 00
5,924 25	164 50	42 37			106 65	500 00	6,737 78	372 13
					161 00	1,340 00	2,001 00	193 06
		40 00			55 35	280 00	355 35	5,410 70
2,058 98	119 00	907 11					3,085 04	14 96
1,398 02	10 50	40 00		328 52	164 50	1,880 00	3,721 54	156 64
		40 00	1 08		525 00	2,800 00	3,366 08	2,725 17
		4 56		2,213 34	45 75	1,220 00	3,483 65	
					229 25	2,620 00	2,849 25	1,174 63
2,218 82	80 50	41 70			64 80	300 00	2,705 82	747 10
9,937 26	278 25	40 00	13 76		292 50	1,300 00	11,861 77	6,651 00
365 35		61 65			82 50	440 00	949 50	48 69
31,739 65	402 50	40 00			862 50	4,600 00	37,644 65	653 89

TABLE No. 126—Continued.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.						
Cd.	Street Improvement Fund.	Balance Jan. 1, 1898.	Taxes.	Transfers.	Loans.	Total Receipts.
	<i>Forward</i>	\$.....	\$.....	\$.....	\$.....	\$.....
3286	Mechanic				8,000 00	8,000 00
2459	Newburgh	44 81	1,201 68	600 00		1,846 49
1568	Oakdale	1,473 25				1,473 25
2576	Odell	22 99	224 42			247 41
2174	Olive	510 84	969 54			1,480 38
2724	Oliver		2,854 43	1,000 00	10,800 00	14,654 43
2518	Ontario	410 85	665 16	1,010 00	1,400 00	3,486 01
2712	Ontario		891 92	2,000 00	2,700 00	5,591 92
1468	Orange	14 06	295 78			309 84
1562	Osborn	943 08	890 87	375 89		2,209 84
2634	Osborn	922 36	1,360 68			2,313 04
3202	Orange				10,000 00	10,000 00
1976	Park Place	438 60	630 90			1,069 50
1758	Pearl	1,217 45	7,238 66	529 80		8,785 91
2070	Pearl	796 98	225 29			1,022 27
2762	Pearl				25,000 00	25 000 00
2662	Penn		2,128 29	2,500 00	7,650 00	12,278 29
2482	Platt	582 22	1,605 32			2,187 54
2700	Plymouth		1,403 57	200 00	5,400 00	7,003 57
2274	Princeton	921 54	3,605 58			4,527 12
3278	Princeton				5,000 00	5,000 00
	<i>Forward</i>					

TABLE NO. 126—Continued.

OF RECEIPTS AND DISBURSEMENTS.—PAVINGS.

DISBURSEMENTS.

Contract.	Inspection.	Miscellaneous.	Abate-ments.	Transfers.	Interest.	Loans.	Total Disburse-ments.	Balance Dec. 31, 1898.
\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
								8,000 00
			1 85		271 50	1,000 00	1,273 35	573 14
					53 25	1,420 00	1,473 25	
		40 00			30 00	160 00	230 00	17 41
					75 25	860 00	935 25	545 13
8,605 00	427 00	40 93			255 15	1,200 00	10,523 08	4,126 35
3,032 30	99 75	97 90			26 25	200 00	3,456 20	29 81
2,875 95	178 50	40 54			47 97	300 00	3,442 96	2,148 96
			53 92				53 92	255 92
		4 60		1,292 24	33 00	880 00	2,209 84	
		40 00			329 75	1,180 00	1,549 75	763 29
								10,000 00
		40 00			43 75	500 00	583 75	485 75
		38 05		1,775 86	252 00	6,720 00	8,785 91	
		40 00			33 25	380 00	453 25	569 02
								25,000 00
9,094 03	187 25	41 70			180 90	850 00	10,353 88	1,924 41
		40 00			166 25	1,900 00	2,106 25	81 29
5,708 07	199 50	92 40			135 00	600 00	6,734 97	268 60
		40 00	40 05		562 50	3,000 00	3,642 55	884 57
								5,000 00

TABLE No. 126—Continued.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.						
G. R.	Street Improvement Fund.	Balance Jan. 1, 1896.	Taxes.	Transfers.	Loans.	Total Receipts.
	<i>Forward</i>	\$.....	\$.....	\$.....	\$.....	\$.....
1404	Prospect	8,544 96	43 06	578 61		9,166 63
2756	Prospect.....		403 29		5,000 00	5,403 29
2640	Putnam		1,475 07	500 00	5,400 00	7,375 07
1658	Quincy		8,816 51	1,000 00		9,816 51
1660	Quincy	323 93	6,442 29			6,766 22
3264	Quincy				37,000 00	37,000 00
2680	Race.....		393 83		1,800 00	2,193 83
1978	Randall	126 67	503 88			630 55
2706	Republic.....		2,372 72	400 00	8,100 00	10,872 72
2694	Ridge.....		6,646 47	18,000 00	18,000 00	42,646 47
1466	Rockwell	432 39	1,180 05			1,612 44
1530	Rockwell	19 64	449 27			468 91
3238	Rose.....				1,500 00	1,500 00
2625	Sackett	14		19 86		20 00
2760	Sayles				8,000 00	8,000 00
3214	Scott				8,200 00	8,200 00
2276	Scovill.....	1,315 55				1,315 55
2626	Seranton	6,090 50	12,038 92	7,000 00	29,700 00	54,829 42
2688	Seranton	1,500 00	4,432 52	16,000 00	16,200 00	38,132 52
3212	Seranton			100 00		100 00
	<i>Forward</i>					

TABLE No. 126—Continued.

OF RECEIPTS AND DISBURSEMENTS.—PAVINGS.

DISBURSEMENTS.								
Contract.	Inspection.	Miscellaneous.	Abate-ments.	Transfers.	Interest.	Loans.	Total Disburse-ments.	Balance Dec. 31, 1898.
\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
				9,166 63			9,166 63	
4,477 08	245 00	50 33			93 50		4,865 91	537 38
5,587 10	126 00	40 00	28 57		135 00	600 00	6,516 67	858 40
					509 25	5,820 00	6,329 25	3,487 26
					521 50	5,980 00	6,481 50	284 72
								37,000 00
		46 70			27 28	200 00	273 98	1,919 85
					38 50	440 00	478 50	152 06
8,709 00	322 00	42 07	1 89		191 25	900 00	10,166 21	706 51
7,460 64	351 75	46 34	22 14		337 72	2,000 00	10,218 59	32,427 88
		40 00					40 00	1,572 44
		40 00					40 00	428 91
								1,500 00
				20 00			20 00	
								8,000 00
								8,200 00
					47 55	1,268 00	1,315 55	
34,977 42	267 75	71 20	3,473 28		556 68	3,300 00	42,646 33	12,183 09
24,893 15	977 75	481 35			405 00	1,800 00	28,557 25	9,575 27
		60 00					60 00	40 00

TABLE No. 126—Continued.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.						
C. R.	Street Improvement Fund.	Balance Jan. 1, 1898.	Taxes.	Transfers.	Loans.	Total Receipts.
	<i>Forward</i>	\$.....	\$.....	\$.....	\$.....	\$.....
1980	Second	986 98	1,214 76			2,201 74
2548	Seelye	83 44	1,860 54			1,943 98
2182	Seneca	420 08	3,647 56			4,067 64
2650	Seneca		1,549 66	4,000 00	4,500 00	10,049 66
1982	Sheriff	1,541 37	815 98			2,357 35
1984	Sibley	1,622 76	2,471 41			4,094 17
1764	Sixth	918 21	1,192 15	213 91		2,324 27
1574	So. Water	985 24	1,298 27			2,283 51
1454	So. Woodland	2,504 77		2 313 34		4,818 11
2646	Spangler	115 08	791 58			906 66
2530	State	574 25	1,575 65			2,149 90
1766	St. Clair	2,531 36	7,628 12	6,388 07		16,545 55
2042	St. Clair	404 06	5,463 02			5,867 08
3223	St. Clair			2,000 00	2,400 00	4,400 00
3268	Steinway		924 00		8,500 00	9,424 00
2046	Sterling	1,329 91	6,276 22			7,606 13
2726	Streator		2,620 85	500 00	9,000 00	12,120 85
2566	Sumner	757 98	1,702 98	150 00		2,610 91
1884	Superior	4,760 29	15,355 94			20,116 23
3224	Superior			3,500 00	1,500 00	5,000 00
	<i>Forward</i>					

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OF RECEIPTS AND DISBURSEMENTS.—PAVINGS.

[illegible]

TABLE No. 126—Continued.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.						
G. R.	Street Improvement Fund.	Balance Jan. 1, 1898.	Taxes.	Transfers.	Loans.	Total Receipts.
	<i>Forward</i>	\$.....	\$.....	\$.....	\$.....	\$.....
3310	Thurman			75 00		75 00
2044	Tilden	135 58	1,441 48			1,577 06
2608	Van Buren	620 91	1,062 43			1,683 34
2568	Vine	1,202 34	1,387 45			2,589 79
2704	Wade Park		8,163 80	7,100 00	36,000 00	51,253 80
2612	Ward	443 13	1,195 44			1,638 57
2628	Waring	1,041 91	1,073 38			2,115 29
1768	Wason	891 75	2,643 88			3,535 63
2058	Water	42 72	1,764 06	100 00		1,906 78
2190	Water	2,327 41	2,307 05			4,634 46
2616	Waverly	496 62	3,542 73			4,039 35
2570	Webster	1,163 83	1,472 78			2,636 61
2736	W. Clinton		1,302 91	300 00	4,500 00	6,102 91
3242	W. Madison				6,300 00	6,300 00
1192	Wheeler	632 36	6 26			638 62
3232	Willett				18,000 00	18,000 00
2702	Willson	21,095 21	10,661 61			31,756 82
2262	Windsor	586 56	1,738 90			2,325 46
2524	Wood		1,822 91	1,800 00	6,300 00	9,722 91
2644	Woodbridge		3,483 84	1,400 00	13,500 00	18,383 84
	<i>Forward</i>					

TABLE No. 126—Continued.

OF RECEIPTS AND DISBURSEMENTS.—PAVINGS.

DISBURSEMENTS.								
Contract.	Inspection.	Miscellaneous.	Abate-ments.	Transfers.	Interest.	Loans.	Total Disburse-ments.	Balance Dec. 31, 1898.
\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
		60 00					60 00	15 00
					82 25	940 00	1,022 25	554 81
		40 00			187 50	1,000 00	1,227 50	455 84
674 61		40 00			198 75	900 00	1,813 38	776 43
39,810 98	1,456 00	106 75			900 00	4,000 00	46,273 73	4,980 07
		40 00			187 50	1,000 00	1,227 50	411 07
675 00		40 00			240 25	860 00	1,815 25	300 04
		6 96			96 00	2,560 00	2,662 96	872 67
		35 00			147 00	1,680 00	1,862 00	44 78
					140 00	1,600 00	1,740 00	2,894 46
		40 00			562 50	3,000 00	3,602 50	436 85
		40 00			225 00	1,200 00	1,465 00	1,171 61
3,550 34	147 00	41 74			112 50	500 00	4,351 58	1,751 33
								6,300 00
		292 70		345 92			638 62	
								18,000 00
14,324 84	273 00	40 00			2,009 50	7,200 00	23,847 34	7,909 43
		40 00			183 75	2,100 00	2,323 75	1 71
7,735 81	236 75	40 00			157 50	700 00	8,870 06	852 85
14,805 44	372 75	40 00			337 50	1,500 00	17,055 69	1,328 15

TABLE NO. 126—Concluded.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.						
G. R.	Street Improvement Fund.	Balance Jan. 1, 1898.	Taxes.	Transfers.	Loans.	Total Receipts.
	<i>Forward</i>	\$.....	\$.....	\$.....	\$.....	\$.....
1282	Woodland	1,214 39	33 20	6,879 11		8,126 70
2554	Woodland	1,210 55	1,185 05	3,000 00	2,800 00	8,195 60
2610	Woodland Court.....	1,214 52	849 91			2,064 43
1770	Woodland Hills	341 27	3,791 86	512 37		4,645 50
2298	Woodland Hills	105 33	100 04			205 37
2622	York	4,129 44	2,698 54			6,827 98
	Totals	\$ 192,272 52	\$ 394,060 48	\$ 163,455 60	\$ 639,340 00	\$1,389,128 60

TABLE NO. 126—Concluded.

OF RECEIPTS AND DISBURSEMENTS.—PAVINGS.

DISBURSEMENTS.								
Contract.	Inspection.	Miscellaneous.	Abate-ments.	Transfers.	Interest.	Loans.	Total Disburse-ments.	Balance Dec. 31, 1898.
\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
		6,361 44		1,765 26			8,126 70	
337 50	78 75	90 57			52 50	400 00	959 32	7,286 28
625 90		353 46			167 28	800 00	1,946 64	117 79
		5 43		1,714 32	105 75	2,820 00	4,645 50	
		40 00	31 04				71 04	134 33
1,869 81	3 50	40 00	79 16		375 00	2,000 00	4,367 47	2,460 51
\$461,712 87	\$ 14,053 50	\$ 14,152 67	\$ 6,777 93	\$ 70,153 35	\$ 35,557 15	\$ 269,898 00	\$ 872,305 47	\$ 516,823 13

TABLE No. 127.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.						
G. R.	Street Improvement Fund.	Balance Jan. 1, 1898.	Taxes.	Transfers.	Loans.	Total Receipts.
2427	Agnes Court.....	\$ 3 00	\$.....	\$.....	\$.....	\$ 3 00
2334	Ames.....	52 74	195 15	.....	.....	247 89
2185	Amesbury.....	594 20	182 87	1 71	.....	778 78
2337	Amos.....	305 68	37 70	10 00	.....	353 38
2407	Anthony.....	24 96	607 08	50 00	.....	682 02
2808	Armitage.....	249 28	1,258 10	.....	.....	1,507 38
3011	Avon.....	.....	.....	600 00	760 00	1 360 00
2850	Baden Court.....	.....	104 48	.....	350 00	454 48
1612	Baker.....	4 96	.....	150 04	.....	155 00
2372	Baker.....	427 18	569 02	.....	.....	996 20
2499	Becker.....	120 34	209 89	29 41	.....	359 64
2920	Bergen.....	.....	632 34	13,000 00	1,200 00	14,832 34
2437	Bellevue.....	598 79	1,061 24	.....	.....	1,660 03
2406	Berry.....	406 65	559 46	.....	.....	966 11
2872	Bertram.....	50 00	.....	.....	.....	50 00
2419	Bigelow.....	3 67	694 81	10 00	.....	708 48
3012	Billings.....	.....	245 00	.....	.....	245 00
2840	Bliss.....	84 84	1,128 63	200 00	.....	1,413 47
2917	Boulevard.....	.....	769 62	12,000 00	1,800 00	14,569 62
2303	Bradwell.....	203 01	202 90	.....	.....	405 91
2887	Brandon.....	474 69	350 00	1,200 00	2,024 69
2918	Brenton.....	1,114 03	2,800 00	3,914 03
	<i>Forward</i>

DEPARTMENT OF ACCOUNTS.

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TABLE No. 127.

OF RECEIPTS AND DISBURSEMENTS.—SEWERS.

[illegible]

TABLE No. 127—Continued.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.						
G. R.	Street Improvement Fund.	Balance Jan. 1, 1898.	Taxes.	Transfers.	Loans.	Total Receipts.
	<i>Forward</i>	\$.....	\$.....	\$.....	\$.....	\$.....
2339	Bridge	1,396 75	711 83			2,108 58
2426	Bridge.....	12 68	982 58	50 00		1,045 26
2893	Brinsmade.....		834 21		2,200 00	3,034 21
2023	Brooklyn.....	457 59				457 59
2022	Brooklyn.....	2,410 88	941 43	32 39		3,384 70
2265	Buckley	20 02	531 93			551 95
2267	Burton	3,024 63	2,824 10	59 28		5,908 01
2954	Camden.....		1,351 71			1,351 71
2892	Carlisle		294 61	350 00	700 00	1,344 61
2854	Carribelli.....	260 53	762 17			1,022 70
2841	Carry	232 29	320 04			552 33
2845	Case.....	25,782 10	564 06			26,346 15
2910	Chandler.....	1,406 26	1,225 10			2,631 36
2911	Chandler		1,142 55		3,500 00	4,642 55
2956	China		144 91		300 00	444 91
2874	Churchill.	578 81				578 81
2306	Clark	82 69	2,349 86	390 00		2,822 55
2951	Clark		299 50			299 50
2957	Clark.....		205 34	13,000 00		13,205 34
2384	Claud.....	45 95	316 17			360 12
2313	Columbus.....	768 70				768 70
	<i>Forward</i>					

TABLE No. 127—Continued.

OF RECEIPTS AND DISBURSEMENTS.—SEWERS.

DISBURSEMENTS.								
Contract.	Inspection.	Miscellaneous.	Abate-ments.	Transfers.	Interest.	Loans.	Total Disburse-ments.	Balance Dec. 31, 1898.
\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
		30 00					30 00	2,078 58
		30 00			78 75	900 00	1,008 75	36 51
2,551 87	178 50	2 00					2,732 37	301 84
		30 00		427 59			457 59	
		30 00		3,354 70			3,384 70	
		30 00		23 95	18 00	480 00	551 95	
		35 00		2,905 76	107 25	2,860 00	5,908 01	
			299 34				299 34	1,052 37
730 13	31 50	31 68			14 00	140 00	947 31	397 30
		30 00			65 63	750 00	845 63	177 07
52 76		30 00			20 90	200 00	303 66	248 67
19,646 02	763 00	39 00					20,448 02	5,898 13
304 03		672 33			184 50	1,200 00	2,360 86	270 50
2,737 57	84 00	30 00			62 16	500 00	3,413 73	1,228 82
272 60	14 00	30 00			4 60	60 00	381 20	63 71
62 40		516 41					578 81	
		40 00			100 50	2,680 00	2,820 50	2 05
	10 50	84 00					94 50	205 00
		30 00					30 00	13,176 34
		30 00		18 87	11 25	300 00	360 12	
		30 00		738 70			768 70	

TABLE No. 127—Continued.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.						
G. R.	Street Improvement Fund.	Balance Jan. 1, 1898.	Taxes.	Transfers.	Loans.	Total Receipts.
	<i>Forward</i>	\$.....	\$.....	\$.....	\$.....	\$.....
2815	Conrad	1,015 90	1,027 96			2,043 86
2921	Cornelia		581 12		2,100 00	2,681 12
2336	Corwin.....	320 12	435 55	19 46		775 13
3066	Cowley.....		540 00			540 00
2824	Cumberland.....	84 32	629 86	100 00		814 18
2810	Czar.....	345 06	819 47			1,164 53
2888	Douse.....		625 68		1,000 00	1,625 66
2434	Dean Place.....	134 66	647 67	200 00		982 33
2923	Desmond.....		1,089 95	40,000 00	6,000 00	47,089 95
2202	Detroit	527 87				527 87
2828	Detroit.....	1,711 16	670 65			2,381 81
2829	Detroit.....	4,936 80	992 89	100 00		6,029 69
2830	Detroit.....	242 53	3,039 09	3,125 00		6,406 62
2914	Detroit.....		255 19	400 00	1,000 00	1,655 19
2915	Detroit.....		2,049 52	11,000 00	5,000 00	18,049 52
2922	Devine		321 08		1,120 00	1,441 08
2852	Duane.....	331 13	454 25			785 38
2121	Egle.....	95 40				95 40
2376	East Court.....	14 11	221 99	50 00		286 10
2268	Eastdale	183 14	312 28	121 44		616 86
2425	East View	368 12				368 12
	<i>Forward</i>					

TABLE NO. 127—Continued.

OF RECEIPTS AND DISBURSEMENTS.—SEWERS.

DISBURSEMENTS.								
Contract.	Inspection.	Miscellaneous.	Abate-ments.	Transfers.	Interest.	Loans.	Total Disburse-ments.	Balance Dec. 31, 1898.
\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
								2,043 86
1,588 85	94 50	32 38			37 31	300 00	2,052 99	628 13
		30 00		18 88	26 25	700 00	775 13	
444 00	17 50						461 50	78 50
		30 00			61 25	700 00	791 25	22 93
		30 00			61 25	700 00	791 25	373 28
797 36	52 50	30 00			25 00	200 00	1,104 86	520 80
166 68	17 50	30 00	9 00		66 90	600 00	890 08	92 25
26,374 84	437 50	44 00	266 36		106 75	1,200 00	28,429 45	18,660 50
			54 20	473 67			527 87	
317 01	157 50	30 00			72 97	700 00	1,277 48	1,104 33
4,504 05	252 00	99 12			98 30	1,000 00	5,953 47	76 22
4,262 86	45 50	31 00	61 00		187 50	1,800 00	6,387 86	18 76
1,565 94	21 00	49 95					1,636 89	18 30
11,808 49	456 75	34 68			88 75	1,000 00	13,388 67	4,660 85
968 18	70 00	32 33			21 00	180 00	1,251 51	189 57
123 65		30 00	13 33		81 48	500 00	748 46	36 92
					5 40	90 00	95 40	
		20 00			17 50	200 00	237 50	48 60
54 40		30 00		34 46	18 00	480 00	616 86	
	3 50						3 50	364 62

TABLE No. 127—Continued.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.						
G. R.	Street Improvement Fund.	Balance Jan. 1, 1898.	Taxes.	Transfers.	Loans.	Total Receipts.
	<i>Forward</i>	\$.....	\$.....	\$.....	\$.....	\$.....
3086	East View.....		50 00			50 00
2901	Eglingsdale		732 42		2,450 00	3,182 42
2864	Elliott.....	13,300 00	546 30			13,846 30
1806	Emmet.....	261 33	647 64	1 49		910 46
1828	Emmet.....	31 06	386 69	19 06		436 81
2811	Erie Court.....	89 84	1,988 34			2,078 18
2924	Erie		1,449 56			1,449 56
2979	Evans Court.....		400 00			400 00
2873	Fair Court.. ..		308 74	200 00	290 00	798 74
3005	Fairfield		150 00	320 00		470 00
2899	Fairview.....		475 95		920 00	1,395 95
2926	Fen.....		175 64	300 00	320 00	795 64
2896	Fir.....		473 76		2,100 00	2,573 76
2941	Finney.....		582 94	2,000 00	1,800 00	4,382 94
2889	Foljaube.....		169 94		250 00	419 94
2925	Forest.....	780 08	284 50			1,064 58
1548	Forman	57 80		60 00		117 80
3017	Fountain Alley..			1,000 00	900 00	1,900 00
2928	Francis.....		1,427 12	22,000 00	3,600 00	27,027 12
1986	Franklin.....	7 98				7 98
2927	Franklin.....		1,333 48	9,000 00	3,400 00	13,733 48
	<i>Forward</i>					

TABLE No. 127—Continued.

OF RECEIPTS AND DISBURSEMENTS.—SEWERS.

DISBURSEMENTS.								
Contract.	Inspection.	Miscellaneous.	Abate-ments.	Transfers.	Interest.	Loans.	Total Disburse-ments.	Balance Dec. 31, 1898.
\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
41 50							41 50	8 50
2,215 38	80 50	30 00			61 25	350 00	2,737 13	445 29
10,531 67	563 50	30 00			169 19	1,100 00	12,394 36	1,451 94
		30 00		880 46			910 46	
		30 00		406 81			496 81	
		30 00			56 00	640 00	726 00	1,332 18
								1,449 56
309 37	35 00						344 37	55 63
396 16	52 50	30 00			7 25	290 00	775 91	22 83
206 33	21 00						227 33	242 67
987 92	59 50	2 11					1,049 53	346 42
649 30	42 00						691 30	104 34
1,857 70	56 00	30 00			52 50	300 00	2,296 20	277 56
3,392 19	217 00	5 00					3,614 19	768 75
214 75	28 00	30 00			6 25	50 00	329 00	90 94
729 75	84 00	30 00					843 75	220 83
		30 00	80 00				110 00	7 80
1,727 46	56 00						1,783 46	116 54
19,680 93	742 00	46 00		1,000 00	64 00	720 00	22,252 93	4,774 19
				7 98			7 98	
9,205 83	637 00	40 00	106 14		51 50	680 00	10,720 54	3,012 94

TABLE NO. 127—Continued.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.						
G. R.	Street Improvement Fund.	Balance Jan. 1, 1898.	Taxes.	Transfers.	Loans.	Total Receipts.
	<i>Forward</i>	\$.....	\$.....	\$.....	\$.....	\$.....
3035	Franklin Court.....				2,100 00	2,100 00
2498	Frazee	175 22	73 77	44 45		293 44
3009	Gehring.....			1,600 00	1,740 00	3,340 00
2206	Geneva.....	246 20	147 59	9 49		403 28
2269	Gidding	1,281 70				1,281 70
2435	Gilbert.....	214 39	3,047 39	610 00		3,871 78
2877	Gloyd.....	122 25				122 25
2805	Gordon.....	16,819 31	3,296 06			20,115 37
2891	Grace.....		1,133 01		3,500 00	4,633 01
2346	Grand	384 42	13 84	10 00		408 26
2929	Groton.....		1,450 83	1,100 00	3,800 00	6,350 83
2833	Guy.....	10 35	347 90	100 00		458 25
2855	Halsey	81 58				81 58
2870	Halsey	33 89				33 89
2278	Hamilton.....	57 36	857 47	122 39		1,037 22
2307	Harkness.....	232 56	194 75	37 30		464 61
2420	Harvard.....	95 28	1,834 27	100 00		2,029 55
2280	Herald.....	62 25	195 30	10 67		268 22
2813	Herald.....	72 58	917 56	150 00		1,140 14
2818	Higgins.....	1,304 80	1,303 20			2,608 00
2884	Hill		213 74	1,800 00	440 00	2,453 74
	<i>Forward</i>					

TABLE No. 127—Continued.

OF RECEIPTS AND DISBURSEMENTS.—SEWERS.

DISBURSEMENTS.								
Contract.	Inspection.	Miscellaneous.	Abate-ments.	Transfers.	Interest.	Loans.	Total Disburse-ments.	Balance Dec. 31, 1898.
\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
								2,100 00
		30 00		14 44	9 00	240 00	293 44	
2,286 77	133 00	1 00					2,420 77	919 23
			115 74	287 54			403 28	
		30 00			36 75	980 00	1,046 75	234 95
		30 00	19 99		304 50	3,480 00	3,834 49	37 29
117 25		5 00					122 25	
10 848 23	668 50	40 00	26 66		354 10	3,400 00	15,337 49	4,777 88
2,956 12	126 00	30 00	30 41		87 50	700 00	3,980 03	702 98
		30 00		4 76	13 50	360 00	408 26	
4,359 78	367 50	44 59			57 50	760 00	5,589 37	761 46
		30 00			63 75	340 00	433 75	24 50
41 88		30 00					71 88	9 70
31 21		2 68					33 89	
		30 00		94 22	33 00	880 00	1,037 22	
		30 00		19 61	15 00	400 00	464 61	
		30 00	8 34		157 50	1,800 00	1,995 84	33 71
		42 22		60 00	6 00	160 00	268 22	
		30 00			82 25	940 00	1,052 25	87 89
								2,608 00
2,250 04	92 75		16 66				2,359 45	94 29

TABLE No. 127—Continued.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.						
C. R.	Street Improvement Fund.	Balance Jan. 1, 1898.	Taxes.	Transfers.	Loans.	Total Receipts.
	<i>Forward</i>	\$.....	\$.....	\$.....	\$.....	\$.....
2955	Hillman		1,087 35			1,087 35
2836	Hinde.....	139 34	364 17			503 51
2814	Hope	1,198 16	1,230 17			2,428 33
2832	Horace.....	107 35	138 05			245 40
2946	Hurlbut.....		711 16	1,500 00	2,100 00	4,311 16
2308	Jay.....	41 74	1,039 71	93 46		1,174 91
2912	Jefferson		142 77		350 00	492 77
2913	Jefferson		189 04	200 00	560 00	949 04
2347	Jerome	8 38	170 74	271 88		451 00
3015	Jersey			400 00	480 00	880 00
2930	Judd.....		136 42	375 00	300 00	811 42
2502	Julia.....	129 84	385 20	107 71		622 75
2962	Junction.....		344 27	8,500 00	500 00	9,344 27
2436	Kenmore	28 06	908 96	100 00		1,037 02
2428	Kidder	180 95	133 67			314 62
2817	Kinkel	361 93	525 85			887 78
957	Kinsman.....	1,697 71				1,697 71
2882	Korman		1,254 29		2,500 00	3,754 29
2496	Knox.....	4 72				4 72
2217	Lake.....	909 12		31 50		940 62
2827	Lake.....	2,798 83	2,177 59	4,000 00		8,976 42
	<i>Forward</i>					

TABLE No. 127—Continued.

OF RECEIPTS AND DISBURSEMENTS.—SEWERS.

DISBURSEMENTS.								
Contract.	Inspection.	Miscellaneous.	Abate-ments.	Transfers.	Interest.	Loans.	Total Disburse-ments.	Balance Dec. 31, 1898.
\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
								1,087 35
		30 00			29 75	340 00	399 75	103 76
								2,428 33
		35 54			9 86	200 00	245 40	
2,828 59	119 00	35 66		400 00	41 65	300 00	3,724 90	596 26
		30 00		65 91	39 00	1,040 00	1,174 91	
233 13	10 50	30 00			8 75	50 00	332 38	160 39
686 82	63 00	30 00			14 00	80 00	873 82	75 22
		30 00		255 00	6 00	160 00	451 00	
625 77	17 50						643 27	236 73
648 30	47 25	30 00			7 50	60 00	793 05	18 37
		30 00		11 75	21 00	560 00	622 75	
6,160 10	304 50	40 00			9 00	100 00	6,613 60	2,730 67
					80 50	920 00	1,000 50	36 52
		30 00					30 00	284 62
		30 00			43 75	500 00	573 75	314 08
								1,697 71
2,225 56	84 00	30 00			62 50	500 00	2,902 06	852 23
		4 72					4 72	
				940 62			940 62	
5,418 04	493 50	62 50	10 00		229 10	2,200 00	8,413 14	563 28

TABLE No. 127—Continued.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.						
G. R.	Street Improvement Fund.	Balance Jan. 1, 1896.	Taxes.	Transfers.	Loans.	Total Receipts.
	<i>Forward</i>	\$.....	\$.....	\$.....	\$.....	\$.....
2874	Lake.....			40,000 00	51,000 00	91,000 00
2804	Lane.....	70	332 64	100 00		433 34
2831	Lenox		591 17			591 17
3084	Le Roy		400 00			400 00
2802	Libbie.....		772 02		2,000 00	2,772 02
2880	Library	598 83				598 83
2846	Literary	186 99	207 71			394 70
2801	Lussenden	62 88	1,031 58			1 094 46
2412	Lussenden	42 36	137 21	80 00		254 57
2308	Luverne.....	484 46	377 05			861 51
2507	McCurdy	36 78	375 97	34 70		447 45
2803	Malcolm		1,055 61	22,000 00	2,800 00	25,655 61
2806	Madden	136 12	3,207 44			3,343 56
2881	Mandrake		500 00	100 00		600 00
2062	Marcelline	15 18	2,377 33	300 00		2,692 51
2338	Martin	336 74	431 71	17 71		786 16
2146	Maple	13 51				13 51
2458	Marvin	2 69				2 69
2417	Mason Lane.....	31 78	181 65			213 43
2281	Mather	764 97	580 35	79 77		1,425 09
2803	Medina	700 01	1,209 20			1,909 21
	<i>Forward</i>					

TABLE No. 127—Continued.

OF RECEIPTS AND DISBURSEMENTS.—SEWERS.

DISBURSEMENTS.								
Contract.	Inspection.	Miscellaneous.	Abate-ments.	Transfers.	Interest.	Loans.	Total Disburse-ments.	Balance Dec. 31, 1898.
\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
470 03		40 00			544 92		1,054 95	89,945 05
		30 00			28 00	320 00	378 00	55 34
								591 17
229 41	73 50						302 91	97 09
1,905 23	80 50	30 00			47 25	400 00	2,462 98	309 04
215 33		383 50					593 83	
		30 00			17 50	200 00	247 50	147 20
		30 00			73 50	840 00	943 50	150 96
		30 00			8 25	220 00	258 25	1 32
		30 00			20 25	540 00	590 25	271 26
		43 20		10 00	14 25	380 00	447 45	
3,790 04	178 50	63 50			39 40	520 00	4,591 44	21,064 17
707 97		30 00			166 25	1,900 00	2,804 22	539 34
495 64	45 50						541 14	58 86
		25 00			210 00	2,400 00	2,635 00	57 51
		30 00		9 16	27 00	720 00	796 16	
		13 51					13 51	
		2 69					2 69	
		30 00			10 50	120 00	160 50	52 93
		30 79	5 55	40 00	48 75	1,300 00	1,425 09	
376 70		30 00			105 00	1,200 00	1,711 70	197 51

TABLE No. 127—Continued.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.						
G. A.	Street Improvement Fund.	Balance Jan. 1, 1898.	Taxes.	Transfers.	Loans.	Total Receipts.
	<i>Forward</i>	\$.....	\$.....	\$.....	\$.....	\$.....
2149	Melbourne	57				57
2850	Miles Park		387 96	13,000 00	780 00	14,167 96
2859	Miles Park		851 46			851 46
3085	Minnecota		500 00			500 00
2282	Montrose	7 65	358 23	13 61		379 49
2844	Monumental Court	196 81	140 80			337 61
2842	Muirson		541 31			541 31
2843	Muirson		39 74			39 74
2220	Murray Hill	1,291 14	945 71	96 32		2,333 17
2309	Myrtle	170 06	305 53	115 97		591 56
2370	Nevada	105 76	324 20			429 96
2819	Neville	179 19	843 25	100 00		1,122 44
1812	New	77 87				77 87
2890	Newark		355 68	500 00	850 00	1,705 68
2847	Oakdale		1,578 21	5,000 00	4,000 00	10,578 21
2878	Olive	1,816 52	1,696 37	2,500 00		6,012 89
2872	Orange				2,100 00	2,100 00
2879	Orchard	37 00				37 00
2837	Osborne	209 68	1,366 42			1,576 10
2853	Ottawa		1,428 44	1,100 00	3,900 00	6,428 44
2505	Pearl	12,147 23	3,153 06			15,300 29
	<i>Forward</i>					

TABLE No. 127—Continued.

OF RECEIPTS AND DISBURSEMENTS.—SEWERS.

DISBURSEMENTS.								
Contract.	Inspection.	Miscellaneous.	Abate-ments.	Transfers.	Interest.	Loans.	Total Disburse-ments.	Balance Dec. 31, 1898.
\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
		57					57	
8,572 64	640 50	58 55					9,271 69	4,896 27
								851 46
436 41							436 41	63 59
		30 49		100 00	9 00	240 00	379 49	
		30 00					30 00	307 61
			14 00				14 00	527 31
								39 74
		30 00		2,303 17			2,333 17	
		33 56		60 00	18 00	480 00	591 56	
		30 00			26 25	300 00	356 25	73 71
264 94		30 00			66 50	760 00	1,121 44	1 00
		25 00		52 87			77 87	
852 56	63 00	31 68			17 00	170 00	1,134 24	571 44
6,613 23	325 50	52 92			79 25	800 00	7,870 90	2,707 31
3,614 73	133 00	1 00			292 15	1,900 00	5,940 88	72 01
1,628 62	80 50	32 34			37 44		1,778 90	321 10
		7 00		30 00			37 00	
		30 00			115 50	1,320 00	1,465 50	110 60
4,029 21	252 00	36 00			69 20	780 00	5,166 41	1,262 03
5,874 52		69 45		6,762 57	93 75	2,500 00	15,300 29	

TABLE No. 127—Continued.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.						
C. R.	Street Improvement Fund.	Balance Jan. 1, 1898.	Taxes.	Transfers.	Loans.	Total Receipts.
	<i>Forward</i>	\$	\$	\$	\$	\$
2283	Pennsylvania	175 41	355 71	13 17		544 29
2978	Perkins Alley		59 50	50 00		109 50
2948	Pleasant		974 79	1,000 00	3,500 00	5,474 79
2960	Platt		695 79			695 79
2838	Prosser	710 08	737 69			1,447 77
2812	Quebec	45 40	1,699 78	800 00		2,545 18
1080	Quincy	334 70	440 00	122 51		897 21
2310	Race	86 92	144 50	13 70		245 12
2439	Rawlings	207 47	1,462 02			1,669 49
2438	Remington	97 66	489 07			586 73
2916	Republic Place	38 24				38 24
2816	Rhodes	474 14	778 87			1,253 01
2284	Rickey	156 50	31 12	18 38		206 00
2932	Robert		307 67	300 00	750 00	1,357 67
2825	Rockert	125 10	409 25			534 35
2431	Rockford	192 49	344 63			537 12
2411	Ruggles	21 75	482 47	50 00		554 22
2503	Russel	278 54	20 22	10 00		308 76
2962	Russel		400 00	300 00	3,000 00	3,700 00
2375	Rutland	3 01	568 14	180 00		731 15
3008	Sagamore		245 00			245 00
	<i>Forward</i>					

TABLE No. 127—Continued.

OF RECEIPTS AND DISBURSEMENTS.—SEWERS.

DISBURSEMENTS.								
Contract.	Inspection.	Miscellaneous.	Abate-ments.	Transfers.	Interest.	Loans.	Total Disburse-ments.	Balance Dec. 31, 1898.
\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
		30 00		161 54	12 75	340 00	544 29	
	59 50			50 00			109 50	
3,976 14	182 00	30 00			82 95	500 00	4,771 09	703 70
		42 25					42 25	653 54
238 07		30 00			64 75	740 00	1,072 82	374 95
616 26		30 00	25 78		148 75	1,700 00	2,520 79	24 39
		58 49		838 72			897 21	
		30 00		7 62	7 50	200 00	245 12	
		30 00			122 50	1,400 00	1,552 50	116 99
		30 00			43 75	500 00	573 75	12 98
22 14		16 10					38 24	
		30 00			83 53	750 00	863 53	399 48
		30 00		10 00	6 00	160 00	206 00	
730 13	45 50	31 68			15 00	150 00	972 31	385 36
		30 00			35 00	400 00	465 00	69 35
		30 00			14 25	380 00	424 25	112 87
		30 00			42 00	480 00	552 00	2 22
		30 00		71	10 05	268 00	308 76	
2,713 87	140 00	30 00			75 00		2,958 87	741 13
		30 00	10 00		50 75	580 00	670 75	60 40
	84 00						84 00	161 00

TABLE No. 127—Continued.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.						
G. R.	Street Improvement Fund.	Balance Jan. 1, 1898.	Taxes.	Transfers.	Loans.	Total Receipts.
	<i>Forward</i>	\$.....	\$.....	\$.....	\$.....	\$.....
2826	Schaefer	197 06	641 38	.....	.....	838 44
2822	Scovill Lane.....	1,370 04	618 31	.....	.....	1,988 35
2162	Seranton	67 02	.....	.....	.....	67 02
2311	Seranton	270 74	767 46	131 57	.....	1,169 77
2867	Shaw .....	.....	336 98	500 00	800 00	1,636 98
2285	Shelburne	11 24	664 51	29 79	.....	705 54
2934	Simon .....	.....	537 00	.....	2,250 00	2,787 00
2894	Sovoda.....	.....	524 81	600 00	1,960 00	3,084 81
2809	Sowinski	45 30	1,315 65	450 00	.....	1,810 95
2839	Standard	230 77	743 79	.....	.....	974 56
2853	State	270 78	184 21	200 00	.....	654 99
2909	Stoneman .....	.....	784 28	700 00	2,870 00	4,354 28
2933	Superior .....	.....	173 89	.....	.....	173 89
2221	Summit.....	28 79	.....	88 82	.....	117 61
2969	Talbot .....	.....	.....	.....	1,500 00	1,500 00
2898	Tennerees.....	.....	1,634 76	.....	3,300 00	4,934 76
2166	Terrace	48 51	196 50	356 69	.....	601 70
2301	Thurman	193 07	8 30	.....	.....	201 37
2302	Thurman	437 78	20 51	.....	.....	458 29
2935	Thurman .....	.....	340 51	.....	500 00	840 51
2881	Titus .....	.....	514 81	300 00	1,300 00	2,114 81
	<i>Forward</i> .....	.....	.....	.....	.....	.....

TABLE No. 127—Continued.

OF RECEIPTS AND DISBURSEMENTS.—SEWERS.

DISBURSEMENTS.								
Contract.	Inspection.	Miscellaneous.	Abate-ments.	Transfers.	Interest.	Loans.	Total Disburse-ments.	Balance Dec. 31, 1898.
\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
		30 00			56 00	640 00	726 00	112 44
		30 00			46 80	450 00	526 80	1,461 55
		67 02					67 02	
		32 27		100 00	37 50	1,000 00	1,169 77	
1,218 69	56 00	30 00			20 00	160 00	1,484 69	152 29
		30 00		156 79	18 75	500 00	705 54	
1,775 79	106 00	30 00			56 25	250 00	2,217 04	569 96
1,981 34	94 50	31 00	17 34		46 55	280 00	2,450 73	634 08
411 33		30 00	10 00		133 68	1,200 00	1,785 01	25 94
		30 00			56 00	640 00	726 00	248 56
136 18					69 28	400 00	605 46	49 53
3,107 26	94 50	33 11			57 05	410 00	3,701 92	652 36
								173 89
		42 61		75 00			117 61	
1,333 08	73 50	30 00			37 50		1,474 08	25 97
								4,934 76
				100 00	16 80	140 00	256 80	344 90
		30 00		46 87	4 50	120 00	201 37	
		30 00		117 04	11 25	300 00	458 29	
340 15	49 00	31 72	6 00		10 00	100 00	536 87	303 64
1,577 48	73 50	30 00			32 50	260 00	1,973 48	141 33

TABLE No. 127—Continued.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.						
G. R.	Street Improvement Fund.	Balance Jan. 1, 1898.	Taxes.	Transfers.	Loans.	Total Receipts.
	<i>Forward</i>	\$.....	\$.....	\$.....	\$.....	\$.....
2873	Tod.....	699 14	695 66	23,000 00	2,100 00	26,494 80
2847	Tod	96 86	128 53	.....	.....	225 41
2936	Tod .....	.....	5,878 41	.....	.....	5,878 41
2335	Track.....	371 39	713 11	.....	.....	1,084 50
2944	Train .....	.....	1,237 55	.....	.....	1,237 55
2945	Train .....	.....	471 61	8,100 00	1,400 00	9,971 61
2820	Tremont.....	128 56	1,200 16	.....	.....	1,328 72
2167	Trowbridge.....	97 23	.....	.....	.....	97 23
2506	Union.....	16,289 18	7,845 97	.....	.....	24,135 15
2949	Valley.....	.....	471 68	1,800 00	1,840 00	4,111 68
2424	Wabash.....	117 32	705 45	.....	.....	822 77
2384	Wade Park Avenue.....	.....	.....	60 00	600 00	660 00
2856	Walnut .....	.....	525 34	.....	.....	525 34
2240	Walworth.....	208,897 70	5,609 85	.....	.....	214,507 55
2287	Watkins.....	125 72	99 86	.....	.....	225 58
2895	Watterson .....	.....	1,436 96	20,000 00	3,500 00	24,936 96
2428	Wenham	11 01	721 91	50 00	.....	782 92
3014	West Clinton .....	.....	.....	.....	4,800 00	4,800 00
2452	West Fish	27 39	240 29	597 53	.....	865 21
2453	West Marvin	8 01	.....	.....	.....	8 01
2168	West Newburgh	62 37	.....	.....	.....	62 37
	<i>Forward</i>.....	.....	.....	.....	.....	.....

TABLE NO. 127—Continued.

OF RECEIPTS AND DISBURSEMENTS.—SEWERS.

DISBURSEMENTS.							
Contract.	Inspection	Miscellaneous.	Abate-ments.	Transfers.	Interest.	Loans.	Total Disburse-ments.
\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
11,566 60	434 00	56 00					12,056 60
							14,428 20
							225 41
	45 50	195 00	69 99				310 49
		30 00		556 50	18 00	480 00	1,084 50
		58 25					58 25
7,202 33	248 50	47 00	32 62		24 90	280 00	7,835 35
		30 00			96 25	1,100 00	1,226 25
				97 23			97 23
		2,843 51					2,843 51
2,952 09	164 50	43 68					3,160 27
		30 00			59 50	680 00	769 50
511 00	56 00	30 00			11 94		608 94
							525 34
192,079 08	6,515 25	2,876 00	16 24				201,486 57
		30 53			7 05	188 00	225 58
20,137 09	850 50	75 20			87 50	700 00	21,850 29
					61 25	700 00	761 25
3,758 67	161 00	2 00					3,921 67
				865 21			865 21
		8 01					8 01
		62 37					62 37

TABLE No. 127—Concluded.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.						
G. R.	Street Improvement Fund.	Balance Jan. 1, 1898.	Taxes.	Transfers.	Loans.	Total Receipts.
	<i>Forward</i>	\$.....	\$.....	\$.....	\$.....	\$.....
2996	West Ray.....		300 08		1,320 00	1,620 08
2223	Willson.....	23 77	837 19			360 96
2344	Willson.....	761 93	707 94	137 23		1,607 10
2302	Willson.....	50 26	3,214 81	400 00		3,665 07
2343	Wilmar.....	319 76	124 18	10 00		453 94
2456	Woodbridge.....	9 73				9 73
3021	Woodbridge.....		500 00			500 00
2937	Woodland.....		673 71	10,000 00	1,500 00	12,173 71
2938	Woodland.....		2,208 83			2,208 83
2939	Woodland.....		1,397 00			1,397 00
2940	Woodland.....		1,079 69			1,079 69
1872	Woolsey.....	77 43	1,848 32	56 32		1,982 07
2288	Yeakel.....	8 95	838 00	88 57		935 52
2321	York	11 62	47 90			59 52
2422	Young.....	21 04	716 26	100 00		837 30
	Totals.....	\$ 347,234 22	\$ 169,317 53	\$ 308,705 49	\$ 170,050 00	\$ 995,307 24

TABLE No. 127—Concluded.

OF RECEIPTS AND DISBURSEMENTS.—SEWERS.

DISBURSEMENTS.								
Contract.	Inspection.	Miscellaneous.	Abate-ments.	Transfers.	Interest.	Loans.	Total Disburse-ments.	Balance Dec. 31, 1898.
\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
763 65	91 00	2 00					856 65	763 43
		30 00					30 00	330 96
		53 10		60 00	54 00	1,440 00	1,607 10	
		34 50			280 00	3,200 00	3,514 50	150 57
		30 00		8 94	15 00	400 00	453 94	
		9 73					9 73	
312 77	14 00						326 77	173 23
7,647 86	677 25	64 25			26 60	300 00	8,715 96	3,457 75
			16 67				16 67	2,192 16
								1,397 00
								1,079 69
		82 07		1,190 00			1,982 07	
		35 52		70 00	30 00	800 00	935 52	
					3 50	40 00	43 50	16 02
		30 00			61 25	700 00	791 25	46 05
\$438,409 29	\$ 20,735 75	\$ 13,706 21	\$ 1,350 67	\$ 28,011 62	\$ 9,174 27	\$ 100,664 00	\$ 262,051 81	\$ 338,255 43

TABLE No. 128.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT OF

RECEIPTS.						
G. R.	Street Improvement Fund.	Balance Jan. 1, 1898.	Taxes.	Transfers.	Loans.	Total Receipts.
1938	Bayne.....	\$ 5 92	\$.....	\$ 5 14	\$.....	\$ 11 06
1940	Bazetta.....	6 82		5 89		12 71
1894	Berlin.....	106 72				106 72
2391	Canal.....	648 98	1,334 51			1,983 49
2862	Courtland.....		762 62	34 38		797 00
2863	Crosby.....		594 91	400 00		994 91
1936	Dartmouth.....	3 85				3 85
1934	Dennison.....	22 14				22 14
2352	Dike.....	394 32	131 13	100 00		625 45
2908	East Clark.....		935 26	100 00		1,035 26
1950	Elton.....	5 43		1 44		6 87
2907	Fairlawn.....		527 71	179 84		707 55
2961	Fir.....		1,192 13	722 28		1,914 41
1952	Florence.....	40 80		26 45		67 25
2865	Fountain.....		727 35	100 00	1,500 00	2,327 35
1955	Franklin.....	2 54		41 58		44 12
2348	Garrettson.....		3,692 63	114 48		3,807 11
1908	Hartnell.....	93 22				93 22
1989	Henry.....	7 53				7 53
2871	Herbert.....		307 76	168 68		476 44
1909	Highland.....	38 48		47 55		86 03
1426	Homewood.....	606 93				606 93
	<i>Forward.....</i>					

TABLE No. 128—Continued.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT OF

RECEIPTS.						
G. P.	Street Improvement Fund.	Balance Jan. 1, 1898.	Taxes.	Transfers.	Loans.	Total Receipts.
	<i>Forward</i>	\$.....	\$.....	\$.....	\$.....	\$.....
1992	Huntington	5 98				5 98
2866	Judson		473 55			473 55
1792	Kennedy.....	685 55		146 16		831 71
2869	Kimmel.....		1,411 99	2,200 00	4,000 00	7,611 99
2868	Kindsvater.....		888 56	435 36		1,318 92
2867	Kirtland.....		981 52	450 00		1,431 52
1999	Larnder.....	14 09				14 09
1913	Lawn	1 03				1 03
2904	Linton.....		539 88	697 72		1,237 60
1040	Little.....	161 14				161 14
1917	Lower	18 27				18 27
1930	McCart.....	114 37		9 68		124 05
3257	Mandrake.....				300 00	300 00
2150	Milford.....	3 32		5 48		8 80
2124	Mt. Vernon	5 77				5 77
732	Root.....	218 54				218 54
2005	Scovill.....	9 77				9 77
2006	Seward	4 01				4 01
2906	Sherwood.....		968 24	320 00		1,288 24
2007	Smith	18 61				18 61
2342	Tod	23 91	181 17			205 08
	<i>Forward</i>					

TABLE No. 128—Continued.

RECEIPTS AND DISBURSEMENTS.—GRADINGS AND CURBINGS.

DISBURSEMENTS.								
Contract.	Inspection.	Miscellaneous.	Abatements.	Transfers.	Interest.	Loans.	Total Disbursements.	Balance Dec. 31, 1898.
\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
				5 93			5 93	
		25 49	331 96	116 10			473 55	
480 62	22 50	30 00		296 59			831 71	
6,387 69	302 00	30 00			79 25	800 00	7,598 94	13 05
716 73	42 75	30 00		529 44			1,318 92	
835 46	45 00	31 00		520 06			1,431 52	
				14 09			14 09	
				1 03			1 03	
435 47	14 25	30 00		757 88			1,237 60	
								161 14
				18 27			18 27	
				124 05			124 05	
80 52					5 32		85 84	214 16
				8 80			8 80	
				5 77			5 77	
		30 00					30 00	188 54
				9 77			9 77	
				4 01			4 01	
709 44	61 50	30 00					800 94	487 30
				18 61			18 61	
		30 00					30 00	175 08

TABLE No. 128—Concluded.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT OF

RECEIPTS.						
C. R.	Street Improvement Fund.	Balance Jan. 1, 1898.	Taxes.	Transfers.	Loans.	Total Receipts.
	<i>Forward.....</i>	\$.....	\$.....	\$.....	\$.....	\$.....
2010	Trenton.....	62 66		17 25		79 91
2009	Trenton.....	2 08		10 67		12 75
2886	Wade.....		1,848 80	650 00		2,498 80
2875	Walton.....		2,642 25	1,300 00		3,942 25
2013	Ware.....	3 85				3 85
2378	Warner Road.....	6,886 74	7,062 59	300 00	6,000 00	20,249 33
2906	West Clinton.....		561 02	15 00		576 02
2455	Williams.....	7 97				7 97
1077	Wheatland.....	421 01				421 01
2883	Zoeter.....		1,382 63	830 23		2,212 86
	Totals	\$ 10,662 30	\$ 29,143 21	\$ 9,435 26	\$ 11,800 00	\$ 61,030 77

TABLE No. 128—Concluded.

RECEIPTS AND DISBURSEMENTS.—GRADINGS AND CURBINGS.

DISBURSEMENTS.								
Contract.	Inspection.	Miscellaneous.	Abate-ments.	Transfers.	Interest.	Loans.	Total Disburse-ments.	Balance Dec. 31, 1898.
\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
				79 91			79 91	
				12 75			12 75	
1,047 24	148 50	30 00	4 70				1,230 44	1,268 36
2,588 19	153 00	30 00					2,771 19	1,171 06
				3 85			3 85	
		18,524 35	14 06				18,588 41	1,710 92
								576 02
				7 97			7 97	
								421 01
1,363 17	45 00	30 00		774 69			2,212 86	
\$ 19,127 83	\$ 1,230 50	\$ 19,385 90	\$ 4,088 29	\$ 5,484 46	\$ 135 57	\$ 1,530 00	\$ 50,972 55	\$ 10,068 22

TABLE No. 129.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT OF

RECEIPTS.						
G. I.	Street Improvement Fund.	Balance Jan. 1, 1898.	Taxes.	Transfers.	Loans.	Total Receipts.
2116	Aiken and East View.....	\$ 21 88	\$.....	\$.....	\$.....	\$ 21 88
2118	Arthur	6 28	.....	.....	.....	6 28
1989	Bayne	7 77	.....	.....	.....	7 77
1890	Bayne	1 04	.....	.....	.....	1 04
1941	Bazetta	32 96	.....	.....	.....	32 96
1891	Bazetta	9 37	.....	.....	.....	9 37
1942	Berea	5 38	.....	.....	.....	5 38
1927	Berea	4 93	.....	.....	.....	4 93
1896	Berlin	1 58	.....	.....	.....	1 58
1892	Berlin	6 58	.....	.....	.....	6 58
1893	Berlin	7 49	.....	.....	.....	7 49
2742	Berwick	170 00	.....	.....	.....	170 00
3376	Brownell .....	.....	250 00	.....	.....	250 00
1944	Cherry.....	4 34	.....	.....	.....	4 34
1896	Cherry.....	3 37	.....	.....	.....	3 37
1937	Cherry.....	192 65	.....	23 38	.....	216 03
2102	Chestnut.....	12 61	.....	.....	.....	12 61
1712	Clara	550 77	799 29	.....	.....	1,350 06
3020	Clifford .....	.....	200 00	.....	.....	200 00
1945	Colgate	13 52	.....	.....	.....	13 52
1897	Colgate	93 68	.....	.....	.....	93 68
1898	Dartmouth	79 05	.....	.....	.....	79 05
	<i>Forward</i> .....	.....	.....	.....	.....	.....

TABLE No. 129.

RECEIPTS AND DISBURSEMENTS.—WIDENINGS, OPENINGS, ETC.

DISBURSEMENTS.								
Contract.	Inspection.	Miscellaneous.	Abate-ments.	Transfers.	Interest.	Loans.	Total Disburse-ments.	Balance Dec. 31, 1898.
\$.....	\$.....	\$ 21 88	\$.....	\$.....	\$.....	\$.....	\$ 21 88	\$.....
.....	6 28	.....	.....	.....	.....	6 28	.....
.....	7 77	.....	.....	7 77	.....
.....	1 04	.....	.....	1 04	.....
.....	32 98	.....	.....	32 98	.....
.....	9 37	.....	.....	9 37	.....
.....	5 38	.....	.....	5 38	.....
.....	4 98	.....	.....	4 98	.....
.....	1 58	.....	.....	1 58	.....
.....	6 58	.....	.....	6 58	.....
.....	7 49	.....	.....	7 49	.....
.....	170 00
.....	250 00
.....	4 34	.....	.....	4 34	.....
.....	3 37	.....	.....	3 37	.....
.....	216 08	.....	.....	216 08	.....
.....	12 61	.....	.....	.....	.....	12 61	.....
.....	1,127 40	.....	.....	.....	.....	1,127 40	222 66
.....	200 00	.....	.....	.....	.....	200 00	.....
.....	13 52	.....	.....	13 52	.....
.....	93 68	.....	.....	93 68	.....
.....	79 05	.....	.....	79 05	.....

TABLE No. 129—Continued.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT OF

RECEIPTS.						
G. R.	Street Improvement Fund.	Balance Jan. 1, 1898.	Taxes.	Transfers.	Loans.	Total Receipts.
	<i>Forward</i>	\$.....	\$.....	\$.....	\$.....	\$.....
1935	Davis.....	122 47				122 47
1946	Davis.....	6 99				6 99
1901	Dennison	28 46				28 46
1947	Dennison	9 01				9 01
1948	Detroit.....	4 23		71 26		75 49
1949	Detroit.....	230 11				230 11
1900	Detroit.....	3 74		11 86		15 60
2103	Dover	8 94				8 94
2122	Eagle	135 44				135 44
1951	Elton	318 06		8 65		326 71
1903	Elton	38 26		7 98		46 24
2256	Erie Extension.....	771 99				771 99
2574	Euclid	37 00	11,980 13		15,300 00	27,317 13
1951	Florence.....	68				68
1953	Florence.....	5 90		2,044 15		2,050 05
1904	Franklin	5 28		29 08		34 36
1987	Franklin	7 97		90 11		98 08
1906	Fruitland.....	210 02		13 34		223 36
2304	Frease	88 38	1,107 13	35 08		1,230 59
3095	Gidding's Brook.....			300 00		300 00
3316	Golden			75 00		75 00
	<i>Forward</i>					

TABLE No. 129—Continued.

RECEIPTS AND DISBURSEMENTS.—WIDENINGS, OPENINGS, ETC.

DISBURSEMENTS.								
Contract.	Inspection.	Miscellaneous.	Abate-ments.	Transfers.	Interest.	Loans.	Total Disburse-ments.	Balance Dec. 31, 1898.
\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
				122 47			122 47	
				6 99			6 99	
				28 46			28 46	
				9 01			9 01	
				75 49			75 49	
				230 11			230 11	
				15 60			15 60	
		8 94					8 94	
		8 24			7 20	120 00	135 44	
				326 71			326 71	
				46 24			46 24	
629 09		93 67					722 76	49 23
		27,188 97		80 00			27,268 97	48 16
				68			68	
				2,050 05			2,050 05	
				34 36			34 36	
				95 08			95 08	
				223 36			223 36	
		39 29		278 80	33 00	880 00	1,230 59	
		158 25					158 25	141 75
		60 00					60 00	15 00

TABLE No. 129—Continued.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT OF

RECEIPTS.						
C. R.	Street Improvement Fund.	Balance Jan. 1, 1898.	Taxes.	Transfers.	Loans.	Total Receipts.
	<i>Forward</i>	\$.....	\$.....	\$.....	\$.....	\$.....
2104	Grace.....	3 55		2 35		5 90
215	Grand	207 52				207 52
2106	Grand Army court.....	4 37		28 08		32 45
2107	Greenwood	864 25	7 75			872 00
2776	Halsey.....			50 00		50 00
1968	Hartwell	8 47				8 47
1089	Highland	18 52	452 21	230 00		700 73
1931	Hillsdale	90 97				90 97
1993	Huntington	11 92		16 69		28 61
1994	Huntington	144 51		22 97		167 48
1910	Jackson	4 36				4 36
1916	Lake	14		172 35		172 49
1997	Lake	4 48		61 16		65 64
1998	Lake	37 74		38 04		75 78
1914	Larnder	68 64		14 62		78 26
1912	Lawn	44 29				44 29
1918	McCart	149 28		11 07		160 35
2001	Madison	3 02				3 02
1920	Madison	1 69		715 29		716 98
2147	Maple	25 49				25 49
2148	Marvin	6 28				6 28
	<i>Forward</i>					

TABLE No. 129—Continued.

RECEIPTS AND DISBURSEMENTS.—WIDENINGS, OPENINGS, ETC.

[illegible]

TABLE No. 129—Concluded.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT OF

RECEIPTS.

C. d.	Street Improvement Fund.	Balance	Taxes.	Transfers.	Loans.	Total
		Jan. 1, 1898.				Receipts.
	<i>Forward</i>	\$.....	\$.....	\$.....	\$.....	\$.....
1921	Morris.....	9 27				9 27
2126	Newburgh ..	427 12				427 12
2153	Newburgh	6 21		1 82		8 03
2157	North Plymouth	14 58		2 80		17 38
2128	Pleasant.....	5 67				5 67
2155	Plymouth	7 20		2 80		10 00
2127	Poe	8 58		3 97		12 55
2130	Ralph	109 91				109 91
2738	Sherman.....	157 85	1,011 67			1,169 52
2008	Smith	3 40				3 40
2131	Titus	20 51				20 51
2011	Trenton	4 49		43 17		47 66
498	Walworth	92 59	15,852 62			15,945 21
2132	W. Fish	21 03		734 55		755 58
2231	W. Madison	163 07				163 07
	Totals	\$ 6,001 17	\$ 31,660 80	\$ 4,861 62	\$ 15,300 00	\$ 57,823 59

TABLE No. 129—Concluded.

RECEIPTS AND DISBURSEMENTS.—WIDENINGS, OPENINGS, ETC.

DISBURSEMENTS.								
Contract.	Inspection.	Miscellaneous.	Abate-ments.	Transfers.	Interest.	Loans.	Total Disburse-ments.	Balance Dec. 31, 1896.
\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....
.....	9 27	.....	.....	9 27	.....
.....	1 30	.....	1 82	24 00	400 00	427 12	.....
.....	8 08	.....	.....	.....	.....	8 08	.....
.....	17 38	.....	.....	.....	.....	17 38	.....
.....	5 67	.....	.....	.....	.....	5 67	.....
.....	10 00	.....	.....	.....	.....	10 00	.....
.....	12 55	.....	.....	.....	.....	12 55	.....
.....	14 51	.....	.....	5 40	90 00	109 91	.....
.....	31 83	.....	.....	120 00	900 00	1,051 83	117 66
.....	3 40	.....	.....	3 40	.....
.....	20 51	.....	.....	.....	.....	20 51	.....
.....	47 66	.....	.....	47 66	.....
.....	127 22	229 85	.....	1,100 00	10,000 00	11,457 07	4,488 14
.....	60 21	.....	695 37	.....	.....	755 58	.....
.....	163 07	.....	.....	163 07	.....
\$ 629 09	\$ 29,334 86	\$ 229 85	\$ 6,662 31	\$ 1,360 10	\$ 13,390 00	\$ 51,806 21	\$ 6,217 38

TABLE NO. 130.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.						
G. R.	Street Improvement Fund.	Balance Jan. 1, 1898.	Taxes.	Transfers.	Loans.	Total Receipts.
.....	Tax refunded (new)	\$ 28,181 41	.....	\$ 67,277 70	.....	\$ 95,409 11
.....	Tax refunded (old)	967 62	.....	2,657 90	.....	3,625 52
.....	Tax abatement.....	6,555 15	.....	4,035 91	.....	10,591 06
.....	Curbing.....	49 17	.....	584 91	.....	644 06
	Totals.....	\$ 35,703 35	.....	\$ 74,566 42	.....	\$ 110,269 77

TABLE No. 130.

OF RECEIPTS AND DISBURSEMENTS.—ABATEMENTS.

DISBURSEMENTS.								
Contract.	Inspection.	Miscellaneous.	Abate-ments.	Transfers.	Interest.	Loans.	Total Disburse-ments.	Balance Dec. 31, 1898.
.....	\$ 73,873 94	\$ 2,657 90	.....	.....	\$ 76,531 84	\$ 18,877 27
.....	2,364 23	.....	.....	.....	2,364 23	1,261 29
.....	3,366 08	.....	.....	.....	3,366 08	7,223 08
.....	458 59	.....	.....	.....	458 59	185 49
\$.....	\$.....	\$.....	\$ 80,064 79	\$ 2,657 90	\$.....	.....	\$ 82,722 69	\$ 27,547 06

TABLE NO. 131.

THE STREET IMPROVEMENT FUNDS.—LOCAL ACCOUNT

RECEIPTS.						
G. R.	Street Improvement Fund.	Balance Jan. 1, 1888.	Taxes.	Transfers.	Loans.	Total Receipts.
.....	Pavings.....	\$ 192,272 52	\$ 394,060 48	\$ 163,455 00	\$ 639,340 00	\$ 1,389,128 60
.....	Sewers.....	347,234 22	169,317 53	308,705 49	170,050 00	995,307 24
.....	Gradings and Curbing.....	10,652 30	29,143 21	9,435 26	11,800 00	61,030 77
.....	Openings and Widening, etc.	6,001 17	31,660 80	4,861 62	15,300 00	57,823 59
.....	Abatement Funds.....	35,703 35	.....	74,566 42	.....	110,269 77
	Totals.....	\$ 591,863 56	\$ 624,182 02	\$ 561,024 39	\$ 886,490 00	\$ 2,613,559 97

TABLE No. 131.

OF RECEIPTS AND DISBURSEMENTS.—RECAPITULATION.

DISBURSEMENTS.								
Contract.	Inspection.	Miscellaneous.	Abate-ments.	Transfers.	Interest.	Loans.	Total Disburse-ments.	Balance Dec. 31, 1898
\$ 461,712 87	\$ 14,053 50	\$ 14,152 67	\$ 6,777 93	\$ 70,153 35	\$ 35,557 15	\$ 269,898 00	\$ 872,305 47	\$ 516,823 13
488,409 29	20,735 75	13,706 21	1,350 67	28,011 62	9,174 27	100,664 00	662,061 81	338,255 43
19,127 83	1,230 50	19,835 90	4,068 29	5,484 46	135 57	1,520 00	50,972 55	10,058 22
629 09	.....	29,334 86	229 85	6,662 31	1,360 10	13,390 00	51,606 21	6,217 38
.....	.....	.....	80,064 79	2,657 90	.....	.....	82,722 09	27,547 06
\$ 969,579 08	\$ 36,019 75	\$ 76,579 64	\$ 92,511 53	\$ 112,969 64	\$ 46,227 09	\$ 385,472 00	\$ 1,719,658 73	\$ 898,901 24

PART IV.

THE SINKING FUNDS.

TABLE NO. 132.

REPORT OF THE SINKING FUND COMMISSIONERS.

(For comparison of earnings and assets with former years, see table No. 144.)

To the Honorable Council of the City of Cleveland:

GENTLEMEN—The Sinking Fund Commissioners, in compliance with law, submit their report for the year 1898.

SINKING FUND OF 1862.

THIRTY-SEVENTH ANNUAL REPORT.

The income for the year from interest and dividends is	\$ 68,785 53
Gain from premiums on bonds sold is	6,382 86
Gain by exchange of \$180,000 stock of L. S. & M. S. Railroad Co. for \$360,000 New York Central & Harlem River Railroad Company's 3½ per cent. bonds	180,000 00
Total gross gain	\$255,168 39
Less expenses for the year ..	665 00
Total net gain in par value of assets for the year.....	\$254,503 39

1898.

CASH RECEIPTS.

Jan. 1—Cash on hand, as per report	\$ 428 70
Jan. 1—For interests on deposits	13 54
Feb. 1—For semi-annual dividends on \$180,000 stock L. S. & M. S. R. R. Co. at 3%	5,400 00
Feb. 24—For semi-annual interest due March 1 on \$192,000 Cleveland City 6% bonds.....	5,760 00
Mar. 31—For semi-annual interest due on \$179,000 Cleveland City 5% bonds.....	4,475 00
Mar. 31—For semi-annual interest on \$525,000 Cleveland City 4% bonds	10,500 00
Mar. 31—For \$2,000 Cleveland City 5% bonds matured	2,000 00
Apr. 28—For semi-annual interest on \$243,916 Cleveland City 5% notes	6,097 90
Apr. 28—For interest May, 1897, to May 1, 1898, on \$500 Cleveland City 5% notes...	24 36
Apr. 28—For interest Sept. 1, 1897, to May 1, 1898, on \$26,230 Cleveland City 5% notes	874 34
Apr. 28—For interest Sept. 22, 1897, to May 1, 1898, on \$800 Cleveland City 5% notes	24 32
Apr. 28—For interest Nov. 11, 1897, to May 1, 1898, on \$450 Cleveland City 5% notes	10 62
Apr. 28—For \$63,428 Cleveland City 5% notes matured	63,428 00
May 24—For sale of \$180,000 Cleveland City 4% bonds, premium \$6,382.86, accrued interest \$1,097.80	197,480 66
July 1—For interest on deposits	73 65
Aug. 1—For semi-annual interest on \$360,000 N. Y. C. & Harlem River R. R. Co. 3½% bonds	6,300 00
Sept. 1—For interest June 1 to Sept. 1 on \$190,000 Cleveland City 4% bonds.....	1,900 00
Sept. 1—For semi-annual interest on \$192,000 Cleveland City 6% bonds.....	5,760 00
Sept. 25—For semi-annual interest on \$62,666⅔ bonds and bond certificate of the Chi. & Eastern Bridge Co., at 4%	1,253 33
Oct. 1—For semi-annual interest on \$177,000 Cleveland City 5% bonds	4,425 00
Oct. 1—For semi-annual interest on \$325,000 Cleveland City 4% bonds	6,700 00
Oct. 1—For \$10,000 Cleveland City 5% bonds matured.....	10,000 00
	\$332,929 42

TABLE NO. 132—Continued.

<i>Forward</i>	\$332,929 42
Oct. 20—Semi-annual interest due Nov. 1 on \$307,008 Cleveland City 5% notes	7,675 16
Oct. 20—Interest June 8 to Nov. 1 on \$22,670 Cleveland City 5% notes	450 24
Oct. 20—Interest May 2 to Nov. 1 on \$48,510 Cleveland City 5% notes	1,212 75
Oct. 20—Interest June 20 to Nov. 1 on \$76,420 Cleveland City 5% notes	1,432 90
Oct. 20—Interest June 23 to Nov. 1 on \$11,440 Cleveland City 5% notes	203 36
Oct. 20—\$109,278 Cleveland City 5% notes maturing Nov. 1	109,278 00
Total	\$453,181 83

1898. CASH DISBURSEMENTS.	
May 24—For \$190,000 Cleveland City 4% bonds	\$190,000 00
May 28—For \$98,540 Cleveland City 5% notes	98,540 00
June 8—For \$22,670 Cleveland City 5% notes	22,670 00
Oct. 20—For interest Jan. 8 to Oct. 20 on \$15,670 cash used of Viaduct Sinking Fund	287 27
Oct. 20—For \$136,370 Cleveland City 5% notes	136,370 00
Oct. 20—For accrued interest on same on \$48,510, May 2 to Oct. 20	1,131 90
Oct. 20—For accrued interest on \$76,420, June 20 to Oct. 20	1,273 67
Oct. 20—For accrued interest on \$11,440, June 23 to Oct. 20	185 90
Oct. 20—For \$1,440 Cleveland City notes	1,440 00
Oct. 20—For expenses for the year	665 00
Dec. 31—Cash on deposit in bank	618 09
Total	\$453,181 83

The following items constitute the assets of the Sinking Fund of 1862, January 1, 1899:

Cleveland City 6% bonds, par value	\$192,000 00
Cleveland City 5% bonds, par value	157,000 00
Cleveland City 4% bonds, par value	525,000 00
Cleveland City 5% notes, par value	358,210 00
New York Central & Harlem River R. R. Co. 3½% bonds	360,000 00
Chicago & Atchison Bridge Company 6% bonds, par value	94,000 00
Cash on deposit in bank	618 09
Total assets	\$1,696,828 09

Under the plan of the re-organization of the Chicago & Atchison Bridge Company, bonds of that company are to be exchanged for bonds and stock of the Chicago & Eastern Bridge Company, of which exchange only that of the bonds have been received. The desired change in the ledger accounts cannot therefore be made until the certificates are also received.

TABLE No. 132—Continued.

VIADUCT SINKING FUND.

EIGHTEENTH ANNUAL REPORT.

The fund has been diminished by the payment into the City Treasury to redeem city bonds	\$2,200 00
Gain from interest and premium	16,579 00
Leaving the net depletion of the fund for the year	\$245,421 00

1898.

CASH RECEIPTS.

Jan. 1—Cash on hand as per report	\$14,658 60
Jan. 1—For interest on deposits	149 52
Mar. 31—For semi-annual interest on \$203,000 Cleveland City 4½ bonds	4,060 00
Mar. 31—For semi-annual interest on \$8,000 Cleveland City 5½ bonds	200 00
Apr. 23—For semi-annual interest on \$19,960 Cleveland City 5½ notes	499 00
Apr. 23—For interest Sept. 27, 1897, to May 1, 1898, on \$5,000 Cleveland City 5½ notes	152 10
Apr. 23—For interest Nov. 11, 1897, to May 1, 1898, on \$2,250 Cleveland City 5½ notes	53 13
Apr. 23—For Cleveland City 5½ notes matured	4,240 00
May 4—For sale of \$200,000 Cleveland City 4½ bonds	200,723 29
May 26—For semi-annual interest on \$190,000 Cleveland City 4½ bonds	3,800 00
July 1—For interests on deposits	132 34
Oct. 1—For semi-annual interest on \$8,000 Cleveland City 5½ bonds	200 00
Oct. 1—For semi-annual interest on \$3,000 Cleveland City 4½ bonds	60 00
Oct. 15—For sale of \$30,000 Cleveland City 4½ bonds	31,285 67
Oct. 20—For interest June 8 to Oct. 20 on \$15,720 cash used by Sinking Fund of 1862	287 27
Oct. 20—For interest May 11 to Oct. 20 on \$61,200 cash used by City Hall Sinking Fund	1,368 50
Oct. 20—For semi-annual interest due Nov. 1 on \$22,790 Cleveland City 5½ notes ..	574 25
Oct. 20—For interest July 10 to Nov. 1 on \$2,580 Cleveland City 5½ notes	39 09
Oct. 20—For \$6,820 Cleveland City 5½ notes maturing Nov. 1	6,820 00
Dec. 1—For semi-annual interest on \$160,000 Cleveland City 4½ bonds	3,200 00
Total	\$272,482 76

1898.

CASH DISBURSEMENTS.

Feb. 24—Payment into the City Treasury to redeem Cleveland City bonds	\$ 35,000 00
May 5—For \$2,580 Cleveland City 5½ notes	2,580 00
July 16—Payment into City Treasury to redeem Cleveland City bonds	110,000 00
Oct. 20—For interest Feb. 27 to May 1 on \$20,200 cash used of City Hall Sinking Fund	185 16
Oct. 20—For payments into City Treasury to redeem Cleveland City bonds	117,000 00
Oct. 20—For \$5,390 Cleveland City 5½ notes	5,390 00
Dec. 31—Cash on deposit in bank	2,327 60
Total	\$272,482 76

TABLE No. 132—Continued.

The following items constitute the assets of the Viaduct Sinking Fund January 1, 1899:

Cleveland City 4½ bonds, par value	\$163,000 00
Cleveland City 5½ bonds	8,000 00
Cleveland City 5½ notes	24,120 00
Cash on deposit in bank.....	2,327 60
Total assets	\$197,447 60

CITY HALL SINKING FUND.

FOURTH ANNUAL REPORT.

The income from interest for the year is.....	\$ 15,603 37
The gain by cash received from City Treasurer is	61,845 53
Total gain in assets for the year	\$77,448 90

1898.

CASH RECEIPTS.

Jan. 1—Cash on hand as per report	\$ 161 60
Jan. 1—For interest on deposit	23 40
Feb. 7—For amount received from City Treasurer	30,177 16
Mar. 31—For semi-annual interest on \$14,000 Cleveland City 5½ bonds	350 00
Mar. 31—For semi-annual interest on \$6,000 Cleveland City 4½ bonds.....	120 00
Apr. 23—For semi-annual interest on \$160,596 Cleveland City 5½ notes.....	4,014 90
Apr. 23—For interest Aug. 8, 1897, to May 1, 1898, on \$6,500 Cleveland City 5½ notes	240 12
Apr. 23—For interest Sept. 1, 1897, to May 1, 1898, on \$72,370 Cleveland City 5½ notes	2,412 32
Apr. 23—For interest Sept. 22 to May 1, 1898, on \$12,000 Cleveland City 5½ notes ...	365 00
Apr. 23—For \$51,293 Cleveland City 5½ notes matured.....	51,293 00
July 1—For interest on deposits	67 70
Aug. 20—For amount received from City Treasurer.....	31,668 37
Oct. 1—For semi-annual interest on \$14,000 Cleveland City 5½ bonds.....	350 00
Oct. 1—For semi-annual interest on \$6,000 Cleveland City 4½ bonds	120 00
Oct. 1—For \$10,000 Cleveland City 5½ bonds matured	10,000 00
Oct. 20—For interest Feb. 20 to May 11 on \$20,200 cash used of Viaduct Sinking Fund	185 16
Oct. 20—For semi-annual interest due May 1 on \$278,23 Cleveland City 5½ notes...	6,950 63
Oct. 20—For interest May 11 to Nov. 1 on \$72,500 Cleveland City 5½ notes.....	1,715 00
Oct. 20—For interest June 23 to Nov. 1, on \$37,760 Cleveland City 5½ notes	671 24
Oct. 20—For \$59,833 Cleveland City 5½ notes maturing Nov. 1	59,833 00
Total	\$200,718 60

TABLE No. 132—Concluded.

1898.

CASH DISBURSEMENTS.

Apr. 28—For \$77,850 Cleveland City 5% notes.....	\$ 77,850 00
May 1—For \$72,500 Cleveland City 5% notes.....	72,500 00
Aug. 20—For \$10,600 Cleveland City 5% notes.....	10,600 00
Oct. 20—For interest May 11 to Oct. 20 on \$61,200 cash used of the Viaduct Sinking Fund	1,368 50
Oct. 20—For \$37,760 Cleveland City 5% notes maturing Nov. 1.	37,760 00
Oct. 20—For accrued interest on same June 23 to Oct. 20	613 80
Dec. 31—For cash on deposit in bank	26 50
Total	\$200,718 60

The following items constitute the assets of the City Hall Sinking Fund January 1, 1899:

Cleveland City 5% notes.....	\$339,050 00
Cleveland City 5% bonds	4,000 00
Cleveland City 4% bonds	6,000 00
Cash on deposit in bank.....	28 50
Total assets	\$349,078 50

Respectfully submitted,

WM. BINGHAM,
S. T. EVERETT,
JAMES BARNETT,
ANDREW SQUIRE,
SAMUEL E. WILLIAMSON,

Sinking Fund Commissioners.

Cleveland, January 2, 1899.

PART V.

LEVIES AND ASSESSMENTS

TO MEET THE EXPENSES OF

1898.

TABLE No. 133.

THE MUNICIPAL LEVY IN THE TAX OF 1898.

Upon a Valuation of \$142,290,775.00 to meet the

Expenses of the General Funds in 1899.

(For comparison with former years, see tables Nos. 141 and 142.)

Fund.	Rate of Levy per \$1,000.	Amount Levied.	Estimated Net Receipts.*
General	\$ 87	\$ 123,792 97	\$ 120,060 00
Bridge.....	30	42,687 23	41,400 00
Street	86	122,370 07	118,680 00
Park	50	71,145 39	69,000 00
Police	1 68	239,048 50	231,840 00
Sanitary.....	30	42,687 23	41,400 00
Fire	3 30	469,559 56	455,400 00
Dredging	10	14,229 08	13,800 00
Lighting	1 60	227,665 24	220,800 00
Street Intersections	29	41,264 32	40,020 00
Paving	60	85,374 47	82,800 00
General Sinking Fund	40	56,916 31	55,200 00
Viaduct Sinking Fund	1 40	199,207 08	195,200 00
Interest	80	113,832 62	110,400 00
Park Interest	60	85,374 47	82,800 00
Total	\$13 60	\$1,935,154 54	\$1,876,800 00

* Auditor's estimate based upon \$136,000,000.00 Duplicate Net Valuation, as follows:

Valuation \$142,290,775.00 x .0136—	\$ 1,935,154 54
Additions.....	49,000 00
Old delinquent tax collections	99,000 00
Penalties	4,000 00
Chattel tax (delinquent) collected	4,000 00

Total \$ 2,091,154 54

Deduct refundings	\$ 4,000 00
Deduct abatements.....	12,000 00
Deduct Treasurer's fees	9,000 00
Deduct Inquisitor's fees	10,000 00
Deduct cost of advertising.....	1,000 00
Deduct amount pension funds.....	35,000 00
Deduct unpaid taxes	143,354 54

Total deductions \$ 214,354 54

Net for distribution (equal to \$136,000,000.00 x .0136)..... \$ 1,876,800 00

NOTE.—The above estimates are based upon the returns of County Auditor for collection of 1897 tax (see table No. 6).

TABLE No. 134.

**AMOUNT OF TAXES LEVIED IN EACH MAIN SEWER
DISTRICT IN 1898 TO MEET THE EX-
PENSES OF 1899.**

(For comparison with former years, see table No. 143.)

Last year in which valua- tion was calculated.	Number of District.	Valuation of Real Property.	Valuation of Personal Property.	Valuation of Mixed Property.	Total Valuation.	Levy per \$1,000.	Amount Levied.
1896	1	\$ 6,338,460 00	\$ 1 007,210 00	\$ 212,700 00	\$ 7,558,370 00	\$.....	\$.....
1898	2	9,306,960 00	1,677,270 00	183,530 00	11,167,760 00	2 00	22,335 53
1898	3	20,227,110 00	3,234,170 00	9,986,330 00	33,447,610 00	1 00	33,447 61
1898	4	4,061,870 00	412,750 00	529,310 00	5,003,930 00	3 00	15,011 81
1898	5	4,439,320 00	334,080 00	26,680 00	4,800,080 00	3 00	14,400 17
1898	6	300,620 00	9,320 00	26,230 00	336,170 00	2 00	672 34
1898	7	11,633,820 00	1,061,300 00	1,205,030 00	13,920,150 00	2 00	27,840 30
1898	8	366,640 00	9,060 00	28,570 00	404,270 00	1 00	404 27
1898	9	4,814,640 00	7,366,550 00	282,690 00	12,463,880 00	.....	.....
1898	10	676,640 00	23,620 00	10,030 00	710,290 00	3 00	2,130 88
1898	11	2,575,880 00	254,530 00	83,760 00	2,914,170 00	3 00	8,742 49
1898	12	2,312,990 00	153,670 00	217,770 00	2,685,430 00	3 00	8,056 30
1898	13	1,649,590 00	237,330 00	122,770 00	2,009,690 00	3 00	6,029 06
1898	14	2,674,170 00	88,510 00	219,280 00	2,981,960 00	3 00	8 945 88
1898	15	15,678,630 00	1,556,430 00	495,180 00	17,730,240 00	3 00	53,190 72
1898	16	2,716,070 00	122,460 00	65,900 00	2,904,430 00	3 00	8,713 30
1898	17	2,505,470 00	136,670 00	272,250 00	2,914,390 00	3 00	8,743 19
1898	18	1,445,300 00	126,060 00	148,490 00	1,718,870 00	3 00	5,156 61
1898	19	321,060 00	7,370 00	.....	328,430 00	3 00	985 28
1897	20	1,711,970 00	74,370 00	53,880 00	1,840,220 00	.....	.....
1898	21	251,810 00	11,610 00	.....	263,420 00	3 00	790 25
.....	22	.....	.....	.....	.....	.....	.....
1898	Cem St.	370,680 00	39,430 00	9,410 00	419,520 00	3 00	1,258 57
Total ...	.....	\$ 96,379,700 00	\$17,962,790 00	\$14,179,770 00	\$ 128,523,260 00	.....	\$226,854 56

TABLE No. 135.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1898.

G. R.	Ord.	Name of Street.	Number of Installments.	Installment of 1898.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
2560	15467	Amesbury.....	5	2nd	Paving.....	Hough.....	387 feet southerly.....	\$ 410 89
2514	11566	Alanson.....	5	3rd	".....	Central.....	Quincy.....	846 93
2582	12870	Austin Alley.....	3	3rd	".....	Waller.....	Miami Alley.....	306 81
2588	15463	Avon Alley.....	3	2nd	".....	Huron.....	Bolivar.....	643 50
2588	13281	Ashley Alley.....	3	3rd	".....	Huron.....	Bolivar.....	614 25
2602	13428	Alpha Alley.....	3	3rd	".....	Erie.....	Oak Place.....	217 64
2652	15466	Atlas Alley.....	3	2nd	".....	Ohio.....	Race.....	231 36
2708	16986	Alabama.....	5	2nd	".....	St. Clair.....	L. S. & M. S. Ry.....	4,080 72
2808	12015	Armitage.....	3	3rd	Sewer.....	Willson.....	St. Clair.....	1,254 79
2834	8306	Ames.....	5	4th	".....	Miles.....	500 feet south.....	113 60
3011	20221	Avon Alley.....	2	1st	".....	Huron.....	Bolivar.....	377 00
3338	22424	Arlington.....	5	1st	Paving.....	Cedar.....	Scovill.....	3,803 62
2967	18612	Ansel.....	1	1st	Curbing.....	Hough Extension.....	Republic.....	680 58
2407	11001	Anthony.....	3	3rd	Sewer.....	Ridge.....	Lindsley.....	577 78
3062	22033	Allman Court.....	3	1st	".....	Westerly end.....	Easterly end.....	508 43
1964	3658	Brownell.....	5	5th	Re-paving.....	Euclid.....	Scovill.....	2,062 33

TABLE No. 135—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1898.

G. R.	Ord.	Name of Street.	Number of Install- ments.	Last Install- ment of 1898.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
2186	5251	Broadway	5	5th	Re-paving	Central	456 feet westerly	\$ 680 48
2562	13211	Brownell	5	3rd	Paving	Scovill	Woodland	1,006 01
2596	13282	Barn Alley	3	3rd	"	Erie	Short Alley	577 26
2666	15474	Beta Alley	3	2nd	"	Bond	Erie	940 78
2682	15730	Bell	5	2nd	"	Oedar	South end	1,951 53
2830	15084	Bolton	5	2nd	"	Quincy	Woodland	2,944 54
2848	15445	Bank	5	2nd	Re-paving	Superior	285 feet north of Lake	3,439 03
3308	22853	Baden	5	1st	Paving	Quincy	Central	1,250 98
3292	22126	Beechwood	5	1st	"	Cedar	Quincy	3,883 31
2437	12049	Bellevue	3	3rd	Sewer	Woolsey	Ansel	1,092 70
2840	12887	Bliss	4	3rd	"	St. Clair	Becker	1,133 56
2850	17601	Baden Court	4	2nd	"	Baden	East end of Court	105 73
2887	16462	Brandon	3	2nd	"	Mayfield Road	Paul	404 94
2918	16458	Brenton	4	2nd	"	Cedar	Central	1,199 88
2372	10313	Baker	3	3rd	"	White	North end of Baker	587 93
3028	21181	Blaine	3	1st	"	Crawford Road	Mary	1,547 64

TABLE No. 135—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1898.

G. R.	Ord.	Name of Street.	Number of Install- ments.	Install'm't of 1898.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
3218	20254	Bolton.....	5	1st	Paving.....	Woodland.....	South Woodland.....	\$ 1,046 64
3234	20540	Bond Alley.....	5	1st	".....	Bond.....	Erie.....	380 26
2678	22200	Bethesda.....	5	1st	".....	Lake.....	St. Clair.....	480 81
3314	22351	Becker.....	5	1st	".....	Superior.....	St. Clair.....	4,333 02
2742	21340	Berwick.....	2	1st	Opening.....	Brookside.....	E.L. Meyer & Thomson's lot	1,154 98
3078	22206	Beaver.....	3	1st	Sewer.....	Nicola.....	Chester.....	412 33
3080	22283	Beaver.....	3	1st	".....	Geneva Alley.....	150 feet west of Pier St.....	399 06
2484	8297	Bridge.....	5	4th	Paving.....	Liberty.....	Gordon.....	4,948 76
2732	18840	Buckley.....	5	1st	".....	Harbor.....	Burton.....	976 80
2426	11559	Bridge.....	3	3rd	Sewer.....	Gordon.....	Waverly.....	981 16
2917	17575	Boulevard.....	3	2nd	".....	Desmond.....	Detroit.....	778 99
2920	17577	Bergen.....	4	2nd	".....	Train.....	Clark.....	640 00
2893	16848	Brinsmade.....	3	2nd	".....	Ridge.....	Bigelow.....	1,132 60
2419	11457	Bigelow.....	3	3rd	".....	Clark.....	Brinsmade.....	703 97
2406	11002	Berry.....	3	3rd	".....	Ridge.....	Westerly end.....	583 59
3026	21180	Bayne.....	3	1st	".....	Gordon.....	Waterson.....	1,668 31

TABLE No. 135—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1898.

G. R.	Ord.	Name of Street.	Number of Installments.	Installment of 1898.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
3032	21056	Browning.....	3	1st	Sewer.....	Franklin.....	Bayne.....	\$ 507 90
3047	21717	Berlin.....	3	1st	".....	West Madison.....	Lorain.....	2,482 98
3038	21707	Burton.....	3	1st	".....	Storer.....	Rhodes.....	1,181 87
3033	21716	Basetta.....	3	1st	".....	West Madison.....	Willard.....	2,257 58
3284	22122	Birch.....	5	1st	Paving.....	Detroit.....	Lorain.....	3,881 61
3302	22198	Burton.....	5	1st	".....	Clark.....	Storer.....	2,810 15
3243	20544	Bridge.....	5	1st	".....	Pearl.....	Hurd.....	984 13
2339	8309	Bridge.....	1	1st	Sewer.....	Uncollected addition.....	No. 550.....	26 66
2038	4854	Cornell.....	5	5th	Paving.....	1,111 feet east of Euclid.....	Murray Hill.....	878 44
1968	3662	Cheshire.....	5	5th	".....	Prospect.....	Central.....	356 13
2036	5184	Crawford.....	5	5th	".....	Wade Park Ave.....	Hough.....	2,067 19
2228	5380	Cedar.....	5	5th	".....	Fairmount.....	Dean Brook.....	1,001 94
2232	4686	Claremont.....	5	5th	".....	Wade Park.....	North line Sub-lot No. 26.....	588 36
2556	12544½	Central.....	5	3rd	".....	East Madison.....	Alanson.....	3,306 59
2572	12398	Cherry.....	5	3rd	".....	Perry.....	Cherry Alley.....	297 79
2578	13283	Cherry Alley.....	5	3rd	".....	Cherry.....	Odell Alley.....	436 61

DEPARTMENT OF ACCOUNTS.

TABLE No. 135—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1898

G. R.	Ord.	Name of Street.	Number of Installments.	Installment of 1898.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
2654	15465	Cross Alley.....	3	2nd	Paving.....	Woodland.....	Broadway	\$ 603 14
2696	16336	Cemetery.....	5	2nd	"	Quincy.....	Woodland	881 81
2692	15731	Cobleigh.....	5	2nd	"	Willson.....	Easterly end.....	238 99
2718	17586	Court Place..	3	2nd	"	St. Clair.....	Broom Alley.....	171 51
3304	22335	Creighton.....	5	1st	"	Perry	Chapel.....	564 24
3250	20547	Columbus.....	5	1st	Re-paving ..	Center.....	Columbus St. Bridge.....	5,385 65
2810	12180	Ozar.....	3	3rd	Sewer.....	Broadway.....	Colorado	780 08
2845	13287	Case	3	3rd	"	Woodland.....	S. end of Case.....	549 22
2824	12857	Cumberland.....	3	3rd	"	Bolton.....	Oakdale	634 25
2910	16850	Chandler	3	2nd	"	St. Clair.....	1,080 feet southerly.....	1,280 00
2911	16980	Chandler	4	2nd	"	1,080 ft. south of St. Clair	Donald	1,171 41
2854	13424	Carabelli	2	2nd	"	S. line of Sub-lot No. 11...	Mayfield.....	534 99
2821	17177	Cornelia	4	2nd	"	Hodge	Woolsey	669 09
3025	21183	Congress.....	3	1st	"	Quincy.....	Carran.....	188 89
3030	21182	Carran.....	3	1st	"	Congress.....	Bolton.....	741 49
2744	19960	Chapel.....	5	1st	Paving.....	Scovill	Woodland	1,052 50

TABLE No. 135—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1898.

G. R.	Ord.	Name of Street.	Number of Installments.	Kind of Improvement.	LIMITS.		Amount.
					From	To	
3254	20115	Churchill.....	5	Paving.....	Doan	Parkwood	\$ 1,780 93
3260	21700	Curtiss.....	5	"	Willson.....	East end of Curtiss.....	1,408 15
1712	3899	Clara.....	5	Opening	N. line White Mfg. Co. alt	Luther.....	798 93
3386	22526	Charles.....	5	Paving.....	Seovill.....	Woodland	1,330 06
3356	22739	Commonwealth.....	5	Opening	Stanley	Hough	1,608 93
3354	22740	Congress.....	3	"	Remington & Goulding alt	Carran	1,415 31
432	22211	Cuyahoga River.....	1	Dredging.....	Government Piers.....	West line O. L. 281.....	5,025 97
2391	9185	Canal.....	3	Grading.....	Factory.....	Commercial.....	1,285 17
3066	22029	Colfax.....	3	Sewer.....	East end of Colfax.....	300 ft. w. of N'th East Ave.....	562 33
3065	22031	Colfax.....	3	"	Deckand.....	150 feet west of Herald.....	2,252 50
3068	21612	Carabelli.....	1	Curbing.....	Mayfield.....	1,208 feet northerly.....	1,290 05
3081	22205	Congress.....	3	Sewer.....	Carran.....	150 ft. north of Remington	1,011 96
2652	12899	Center.....	5	Re-paving	Cuyahoga River.....	Main.....	1,984 65
2620	13516	Clark.....	5	Paving.....	Pearl.....	Jennings.....	2,283 45
2670	15476	Clark.....	5	"	Jennings.....	Merchant.....	841 79
2692	16847	Carlisle.....	3	Sewer.....	Burton.....	Seiden.....	288 17

TABLE No. 135—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1898.

G. R.	Ord.	Name of Street.	Number of Installments	Installments of 1898	Kind of Improvement.	LIMITS.		Amount.
						From	To	
2815	12628	Conrad.....	3	3rd	Sewer	Ridge	Higgins.....	\$ 1,075 45
2866	17688	China.....	3	2nd	"	Chatham	Siam	146 67
2884	17578	Camden.....	4	2nd	"	Lenox	Bigelow	1,136 29
3044	21721	Conover.....	3	1st	"	West Madison.....	Lorain	2,731 96
2774	20245	Carroll.....	5	1st	Paving	Fulton	192 ft. West of York.....	1,509 13
3216	20253	Courtland.....	5	1st	"	Detroit.....	Lorain	4,137 55
2748	19861	Church.....	5	1st	"	Pearl.....	Duane.....	1,875 35
3244	20546	Carter	5	1st	Re-paving	Seranton.....	C. C. & St. L. Ry.....	1,289 49
3286	22204	Clark.....	5	1st	Paving.....	Gordon	Lorain.....	6,426 63
3270	21704	Cook.....	5	1st	"	Harbor	Burton	1,086 47
482	22211	Cayaboga River.....	1	1st	Dredging.....	Government Piers.....	W. L. of O. lot 281.....	8,149 75
3072	22280	Chatham.....	3	1st	Sewer	Pearl.....	Willett.....	842 44
2434	20260	Dean Place (additional).....	1	1st	"	Harvard.....	Hughes	739 37
2716	17074	Dunham.....	5	2nd	Paving.....	Wade Park	Hough	2,710 29
3086	21709	Diemer.....	3	1st	Sewer	Spilker.....	St. Clair.....	375 58
3272	21705	Dibble.....	5	1st	Paving.....	Willson.....	Norwood.....	2,071 99

TABLE No. 135—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1898.

G. R.	Ord.	Name of Street.	Number of Install- ments.	Install- ment of 1898.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
3067	22033	Deekand.....	3	1st	Sewer.....	Kinsman.....	Colfax.....	\$ 285 66
2838	16555	Douse.....	3	2nd	".....	550 ft. north of Broadway	N. E. of Douse.....	633 33
1970	3864	Dexter Place.....	5	5th	Paving.....	Clinton.....	Franklin Place.....	209 02
1363	7586	Detroit (West).....	11	8th	".....	L. S. & M. S. R. R.....	Highland.....	2,189 72
2730	17876	Davis.....	5	2nd	".....	Lorain.....	Willard.....	851 17
1332	7585	Detroit (East).....	13	9th	".....	Old City Limits West.....	L. S. & M. S. R. R.....	3,067 17
2629	12836	Detroit.....	3	3rd	Sewer.....	Lake.....	Scovill Lane.....	944 96
2923	17573	Desmond.....	3	2nd	".....	Lake.....	The Boulevard.....	2,165 65
2922	17175	Devine.....	4	2nd	".....	Bailey.....	N. Y. C. & St. L. Ry.....	325 00
2828	12835	Detroit.....	3	3rd	".....	Scovill Lane.....	Lowell.....	681 03
2915	15109	Detroit.....	3	2nd	".....	Eliot.....	Landon.....	2,157 54
2914	15200	Detroit.....	3	2nd	".....	Eliot.....	Lowell.....	258 34
2832	18313	Duane.....	3	2nd	".....	Woodbine.....	Franklin.....	459 79
2830	12837	Detroit.....	3	3rd	".....	Lake.....	220 ft. W. of Gordon.....	1,966 65
3034	21715	Davis.....	3	1st	".....	West Madison.....	Willard.....	2,370 68
3236	20541	Duane.....	5	1st	Paving.....	Franklin.....	Woodbine.....	735 11

DEPARTMENT OF ACCOUNTS.

TABLE No. 135—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1898.

G. R.	Ord.	Name of Street.	Number of Installments.	Installment of 1898.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
3280	21860	Dave.....	5	1st	Paving.....	Detroit.....	Lorain.....	\$ 3,948 50
3064	21036	East Madison.....	3	1st	Sewer.....	Holton.....	350 feet south.....	517 94
2032	4977	East Madison.....	5	5th	Repaving.....	Superior.....	Hough.....	4,984 84
1734	12285	East Madison.....	5	3rd	Paving.....	Cedar.....	Woodland.....	3,749 72
2614	13429	Erie Court.....	3	3rd	".....	Erie.....	Brownell.....	643 15
2642	15058	Ensign.....	5	2nd	".....	Willson.....	Kinsman.....	785 15
2040	4854	Euclid.....	5	5th	".....	Old City Limits.....	New City Limits.....	6,445 38
2376	9757	Euclid.....	3	3rd	Sewer.....	Kirtland.....	East End.....	205 11
2311	12424	Erie Court.....	3	3rd	".....	Erie.....	Brownell.....	568 23
2924	14943	Erie.....	3	2nd	".....	Superior.....	Woodland.....	1,522 69
2982	19722	Eben.....	5	1st	".....	Harvard.....	Finney.....	362 00
3258	21790	East Madison.....	5	1st	Paving.....	Woodland.....	Holton.....	2,608 27
2374	17774	Euclid.....	2	2nd	Widening.....	Old City Limits.....	New City Limits.....	13,173 81
3324	21072	Edgewood Place.....	5	1st	Paving.....	Euclid.....	1,012 feet northerly.....	736 11
2550	11437	Eastman.....	5	3rd	".....	Detroit.....	Thornton.....	1,378 02
2901	16668	Eglindale.....	4	2nd	Sewer.....	Seranton.....	East View.....	750 06

TABLE No. 135—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1898.

G. R.	Ord.	Name of Street.	Number of Install- ments.	Instal- ment of 1898.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
2864	14468	Eliot.....	3	2nd	Sewer	Lake.....	Detroit	\$ 573 34
2188	9008	Frankfort	4	4th	Re-paving	Water	Seneca	773 13
2600	15462	Fountain	3	2nd	Paving.....	Seneca	Ontario	625 73
2941	17685	Finney.....	4	2nd	Sewer	Valley.....	Hooper.....	642 50
2859	16849	Fairview.....	3	2nd	"	Murray Hill.....	S. L. of S. L. No. 39	481 72
2889	16465	Folambe.....	3	2nd	"	S. L. Jas. Parker's allot	Outwaite	179 20
2925	17443	Forest	3	2nd	"	Kingsbury Run.....	Croton	283 15
2926	17445	Fen.....	3	2nd	"	Quincy	C. & P. R. R.....	177 78
2928	17584	Francis.....	3	2nd	"	Willson.....	Tod.....	1,444 44
3017	20791	Fountain	2	1st	"	Seneca.....	Ontario.....	302 66
3024	21057	Fairview.....	3	1st	"	Mayfield.....	Lake View Cemetery	928 11
3220	20255	Florence.....	5	1st	Paving.....	Quincy.....	Woodland	2,272 35
2873	16554	Fair Court.....	1	1st	Sewer	Uncollected additions.....	{ Nos. 556, 558, 560, 561, 562, 563, 564, 565, 567. }	388 00
2457	Vol. 2 P. 191	Fish (now Riverside).....	14	8th	Paving.....	Pearl.....	Rhodes.....	3,759 75
2270	9004	Franklin Place.....	5	4th	"	Franklin Ave., east.....	Fulton.....	142 90
2672	15454	Fairfield.....	5	2nd	"	Jennings.....	Pelton.....	894 56

DEPARTMENT OF ACCOUNTS.

TABLE No. 135—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1898.

G. R.	Ord.	Name of Street.	Number of Install- ments.	Instal- ment of 1898.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
2927	17450	Franklin.....	3	2nd	Sewer	Waterson	Pease Court	\$ 1,399 60
2936	16959	Fir.....	4	2nd	"	Gordon	Waverly.....	644 01
2971	18347	Fountain	4	1st	"	Train.....	Clark	583 27
2997	19972	Franklin.....	3	1st	"	Malcolm.....	Pease Court	973 74
2996	19721	Franklin.....	3	1st	"	Waterson	220 feet west of Gordon.....	1,611 73
3035	21714	Franklin Court.....	3	1st	"	Mabel	South end.....	254 00
3045	21720	Frees.....	3	1st	"	Burton	North end.....	1,279 21
3274	21768	Freeman.....	5	1st	Paving.....	Pearl	Columbus.....	800 10
2955	14526	Fountain	3	2nd	Grading.....	Clark.....	Train.....	748 20
1532	2751	Greenwood.....	5	5th	Paving.....	Sibley	Central.....	587 36
2280	11270	Giddings.....	5	3rd	"	Enclid	Luxington	4,824 75
2594	13284	Gundy Alley.....	3	3rd	"	Eagle.....	Central.....	511 98
2654	15729	Gladstone.....	5	2nd	"	Sawtell.....	Westerly end.....	695 85
2224	6384	Giddings.....	5	5th	"	Cedar.....	Woodland	3,288 38
2833	12853	Guy.....	5	3rd	Sewer	Petrie.....	Weckerling.....	340 13
2929	17076	Groton.....	3	2nd	"	Union.....	Actna.....	1,551 78

TABLE No. 135—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1898.

G. R.	Ord.	Name of Street.	Number of Installments.	Installation of 1898.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
2370	18530	Garden Place.....	3	1st	Sewer	Central.....	North end.....	\$ 194 58
2392	19719	Glass.....	3	1st	"	Norwood.....	Light	223 83
3276	21789	Greenwood.....	5	1st	Paving.....	Central.....	Scovill.....	1,084 15
3074	21697	Grove.....	1	1st	Curbing.....	Croton.....	Orange.....	465 20
3316	22638	Golden	5	1st	Opening	East Madison.....	Lincoln.....	2,233 44
2108	Br'klyn Vol. 3-50	Greenwood (now Archw'd)	10	8th	Paving.....	Pearl	Melbourne	1,314 14
2435	11560	Gilbert.....	3	3rd	Sewer	Clark	Storer.....	2,909 77
2805	12053	Gordon	3	3rd	"	L. S. & M. S. R. R.....	Bridge.....	3,273 42
2976	19149	Grand Army Court	1	1st	Grading.....	Pearl	400 feet easterly.....	181 05
3009	20371	Gehring.....	3	1st	Sewer	Pearl	Lorain.....	585 50
3055	21422	Gauge.....	3	1st	"	Train.....	Clark	719 99
2766	20241	Gordon.....	5	1st	Paving.....	Detroit.....	Franklin.....	1,123 25
2746	19950	Gordon.....	5	1st	"	Lorain.....	Clark.....	2,591 72
2768	20242	Gordon.....	5	1st	"	Franklin.....	Bridge.....	642 03
2770	20243	Gordon.....	5	1st	"	Bridge.....	West Madison.....	1,206 96
2772	20244	Gordon.....	5	1st	"	Lorain.....	West Madison.....	1,854 26

TABLE No. 135—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1898.

G. R.	Ord.	Name of Street.	Number of Install- ments.	Install- ment of 1898.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
3348	22522	Gustave Court	3	1st	Opening	Present Westerly End	Brighton	\$ 1,016 94
2801	16742	Grace	3	2nd	Sewer	Ridge	Gelb	1,457 39
1878	3856	Hough	5	5th	Paving	East Madison	490 feet east of Amesbury	5,268 94
2056	4847	Hough	5	5th	"	Willson	Dunham	1,282 10
2064	4816	Hough	5	5th	"	Dunham	East Madison	2,330 14
2198	5249	Hazard	5	5th	"	Superior	Payne	587 06
2516	11130	Hamilton	5	3rd	"	Wood	Erie	2,927 20
2534	11564	Hickox	3	3rd	"	Euclid	Prospect	512 92
2692	13280	Harmon	5	3rd	"	Woodland	Central	1,707 08
2813	12184	Herald	3	3rd	Sewer	Kinsman	Trenton	955 35
2836	12859	Hinde	3	3rd	"	Broadway	Tod	355 24
2420	11456	Harvard	3	3rd	"	Jones	Broadway	1,775 03
2946	17684	Hurlburt	4	2nd	"	Payne	Perkins	644 18
2955	17176	Hillman	3	2nd	"	Broadway	Tod	1,113 89
2984	16247	Hill	3	2nd	"	Commercial	Harrison	216 69
2988	19810	Home	3	1st	"	East Madison	West end of street	485 00

TABLE NO. 135—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1898.

G. R.	Ord.	Name of Street.	Number of Instal- ments.	Instal- ment of 1898.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
2963	19809	Hawthorne.....	3	1st	Sewer	Wilson.....	Second	\$ 2,011 15
2955	17991	Halsey	1	1st	"	Quebec.....	530 feet north.....	566 62
3023	20934	Harrison.....	4	1st	"	Hill.....	350 feet south.....	299 25
2750	19962	Hickory Lane.....	5	1st	Paving.....	Muirson.....	268 feet Westerly..	252 88
3226	20258	Hough Place	5	1st	"	220 ft. W. of Amesbury....	350 feet east of Amesbury	669 25
3300	22201	Henry	5	1st	"	Scovill	Woodland.....	1,225 29
3004	19446	Haven.....	1	1st	Curbing.....	Superior	City Limits.....	432 91
2776	21416	Halsey	2	1st	Opening	Present South Line	Quebec	877 48
3288	22123	Halsey	5	1st	Paving.....	Cedar.....	Quebec	2,110 23
3062	21698	Holton	1	1st	Curbing.....	East Madison	C. & P. Ry.....	1,304 78
2272	8880	Hanover.....	5	4th	Paving.....	Detroit	Franklin Circle	987 98
2986	16550	Harbor.. ..	5	2nd	"	Lorain	Ravine	2,657 48
2710	16965	Holnden.....	5	2nd	"	Pearl	Jennings	2,791 90
2818	12840	Higgins.....	3	3rd	Sewer	Clark	Lorain.....	1,383 89
2814	12627	Hope.....	3	3rd	"	Ridge.....	Higgins.....	1,256 67
3046	21718	Hartnell.....	3	1st	"	Lorain.....	West Madison.....	2,631 86

DEPARTMENT OF ACCOUNTS.

TABLE No. 135—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1898.

G. R.	Ord.	Name of Street.	Number of Installments.	Installment of 1898.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
3262	21701	Harbor.....	5	1st	Paving.....	Franklin	Lorain	\$ 2,894 90
3246	20545	Jefferson (E. of R. portion)	5	1st	Re-paving	Herschel	Broadway	94 05
1972	3660	James.	5	5th	"	Mervin.....	South Water.....	455 04
2890	17449	Judd.....	3	2nd	Sewer	Perry	Harmon	138 10
3230	20538	Jessie.....	6	1st	Paving.....	Cedar.....	Central.. ..	1,987 11
3200	20251	Judd.....	5	1st	"	Brownell	Harmon	617 71
3252	20548	Julia.....	5	1st	"	Sawtell	Willson	1,024 90
2660	15456	Jersey	5	2nd	"	Fulton	Monroe.....	2,591 55
2852	17570	Junction	3	2nd	Sewer	Walworth	Train.....	243 67
2913	16857	Jefferson.....	4	2nd	"	Pelton.....	Tremont.....	192 06
2912	16858	Jefferson.....	4	2nd	"	Tremont.....	Professor.....	144 50
3015	20682	Jersey	3	1st	"	Bridge.....	Fulton.....	164 72
2754	19966	Jay.....	5	1st	Paving.....	Pearl.....	Jersey	1,316 14
2752	19965	John.....	5	1st	"	Woodbine	Harbor	1,098 48
3246	20645	Jefferson.....	5	1st	Re-paving	Herschel.....	Broadway	2,318 84
2520	10318	Knox.....	5	3rd	Paving.....	Cornell.....	Mayfield.....	600 51

TABLE No. 135—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1898.

G. R.	Ord.	Name of Street.	Number of Install- ments.	Instal- ment of 1898.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
2364	12669	Kent Alley.....	3	3rd	Paving.....	Wood.....	Kent.....	\$ 338 22
2360	16843	Kent.....	3	2nd	".....	St. Clair.....	Lake.....	1,699 36
2362	16246	Korman.....	3	2nd	Sewer.....	Woolsey.....	Ansel.....	1,281 22
2367	19720	Kilfoyle.....	3	1st	".....	Glass.....	Carl.....	608 48
2369	14308	Kimmel.....	3	2nd	Grading.....	Bading.....	Hunting.....	1,663 89
2436	11832	Kenmore.....	3	3rd	Sewer.....	Mary.....	Crawford Road.....	940 00
2720	17687	Kenilworth.....	5	2nd	Paving.....	Jennings.....	Pelton.....	1,094 52
2817	12132	Kinkel.....	3	3rd	Sewer.....	Pearl.....	Scranton.....	203 67
3064	21423	Kentucky.....	3	1st	".....	Woodbine.....	Whitman.....	112 33
3061	21055	Keene Alley.....	2	1st	".....	Jersey.....	Penn.....	215 26
3206	20246	Kentucky.....	5	1st	Paving.....	Woodbine.....	Bridge.....	736 03
3204	20247	Kentucky.....	5	1st	".....	Franklin.....	Woodbine.....	311 16
3352	22468	Keene Alley.....	5	1st	".....	Pearl.....	Penn.....	1,112 00
3350	22467	Krupp Alley.....	5	1st	".....	Keene Alley.....	Monroe.....	886 27
2314	8896	Lamont.....	5	4th	".....	Republic.....	1,016 feet westerly.....	845 33
2316	8896	Lindus.....	5	4th	".....	Superior.....	Waide Park.....	1,096 06

TABLE No. 135—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1898.

G. R.	Ord.	Name of Street.	Number of Installments.	Installment of 1898.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
2558	15840	Lexington	5	3rd	Paving.....	Willson.....	East Madison	\$ 4,358 90
2596	13210	La Grange.	5	3rd	"	East Madison	Ingleside	702 38
2590	16337	Lane.....	5	2nd	"	Commercial	Canal.....	474 24
2632	15063	Lincoln.....	5	2nd	"	Quincy.....	Woodland	2,250 70
2804	11561	Lane.....	3	3rd	Sewer	Commercial	Canal.....	336 67
2891	19808	Lewiston.....	4	1st	"	St. Clair.....	Bliss	1,014 02
3306	22354	Lodge	5	1st	Paving.....	Central.....	Quincy	1,245 54
2938	19148	Lake View.. ..	1	1st	Curbing.....	Superior	N. Y. C. & St. L. R. R.....	2,998 55
3058	20235	Luceil.....	1	1st	Grading.....	Euclid	Mansfield.....	474 80
3340	22428	Linden.....	5	1st	Paving.....	Central.....	Woodland	2,614 62
3342	22429	Logan	5	1st	"	Cedar.....	Quebec	2,236 58
2801	12182	Lussenden.....	3	3rd	Sewer	Quincy	Central.....	810 96
2618	11824	Lawrence.....	5	3rd	Paving.....	Archwood	Bradwell	1,437 71
2676	15455	Literary	5	2nd	"	Hershel	Merchant.....	2,180 84
2846	13213	Literary	3	3rd	Sewer	Merchant.....	Pelton	25 63
2931	17574	Lenox	4	2nd	"	Clark	South end	606 62

TABLE No. 135—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1898.

G. R.	Ord.	Name of Street.	Number of Installments.	Installment of 1898.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
2802	16553	Libbie	3	2nd	Sewer	Clark	Brinsmade	\$ 803 07
2827	12638	Lake Ave.....	3	3rd	"	Detroit	L. S. & M. S. R. R.	2,254 71
2874	17884	Lake Ave.....	3	1st	"	L. S. & M. S. R. R.	Highland	7,108 88
3050	21421	Landon	3	1st	"	Detroit	West Madison	829 13
3029	21185	Lowell	3	1st	"	Detroit	Franklin	485 39
2764	19989	Lorain	5	1st	Re-paving	Pearl	McLean	239 96
3238	22202	Liberty	5	1st	Paving	Franklin	Lorain	2,978 41
3073	22208	Lower	3	1st	Sewer	Detroit	Lake	2,210 95
2526	11438	Murray Hill	5	3rd	Paving	Adelbert	Mansfield	4,561 56
2016	3508	Merwin	5	5th	Re-paving	Center	1,610 feet south	2,457 71
2492	8300	Marcy	5	4th	Paving	Wade Park	Hough	2,253 62
2512	11565	Monumental Court	5	3rd	Re-paving	Superior	Fuelid	530 49
2538	11818	Mayfield	5	3rd	Paving	Knox	Fairview	3,437 32
2638	15090	Minerva	5	2nd	"	Hough	North end	747 68
2698	16385	Main	5	2nd	Re-paving	East River	Water	749 42
2002	3527	Marcelline	5	5th	Sewer	Broadway	Harvard	2,412 39

TABLE No. 135—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1898.

G. R.	Ord.	Name of Street.	Number of Installments.	Instalment of 1898.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
2417	11133	Mason Lane.....	3	3rd	Sewer	Case	Kinder.....	\$ 108 73
2406	11821	Malden.....	3	3rd	"	St. Clair	Donald	525 69
2343	17532	Muirson	3	2nd	"	Superior.....	Walnut.....	40 22
2342	14941 A	Muirson	3	2nd	"	Lake Erie	Superior	838 54
2403	12046	Medina.....	3	3rd	"	Woolsey	Ansel.....	1,210 40
2359	17637	Miles Park.....	3	2nd	"	Sawyer	Woodland Hills.....	485 12
2453	17636	Miles Park.....	3	2nd	"	Broadway	Sawyer	392 66
2380	19007	Marcy	4	1st	"	Superior.....	Wade Park.....	1,291 46
2389	19311	Meridian.....	3	1st	"	Marcy	Crawford Road.....	898 36
3256	21519	Mandrake	5	1st	Paving	Water	208 feet westerly.....	391 62
3257	17997	Mandrake	2	1st	Curbing	Water	350 feet westerly	195 65
3346	22523	Minerva.....	3	1st	Opening	Present North End.....	Stanley.....	574 98
3320	22521	Mayflower.....	5	1st	Paving	Woodland	Croton.....	931 91
2381	19905	Mandrake	3	1st	Sewer	Water	350 feet westerly.....	289 10
2384	4330	Main.....	5	5th	Re-paving	Cayshoga River.....	{ 117 feet southerly from } West Center.	1,833 26
2354	15460	McLean.....	5	2nd	Paving	Lorain.....	Monroe.....	1,331 84

TABLE No. 135—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1898.

G. R.	Ord.	Name of Street.	Number of Install- ments.	Instal- ment.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
2658	15461	Monroe.....	5	2nd	Paving	Pearl	Willet	\$ 2,621 82
3286	21708	Mechanic	5	1st	"	Lorain	Bailey	1,852 06
3318	21175	Mill.....	5	1st	"	Monroe	C. C. C. & St. L. R. R.....	1,088 76
2903	16838	Malcolm.....	3	2nd	Sewer	Detroit.....	West Madison.....	1,105 51
2658	15461	Monroe.....	1	1st	Paving	Uncollected Addition.....	No. 881	27 52
2370	11455	Nevada.....	3	3rd	Sewer	Bolton	Oakdale	828 07
3063	22330	North East.....	3	1st	"	Kinman	Hillside.....	626 66
3079	22207	Nicola.....	3	1st	"	"	Beaver.....	521 98
3077	22232	Norwood.....	3	1st	"	St. Clair.....	Hough	4,521 17
2459	Br. 1178 V. 2, 128 N. E. 2, 46	Newburgh (now Denison) ..	10	8th	Paving	Pearl	Melbourne.....	1,144 11
2134	Br. 1178 V. 2, 257 N. E. 2, 29	Newburgh (now Denison) ..	10	5th	"	Pearl	East line of Foster	1,794 74
1819	12629	Neville.....	3	3rd	Sewer	Ridge	West end of Neville.....	782 16
2880	16846	Newark.....	3	2nd	"	Selden.....	Burton.....	360 00
2174	4672 5250	Olive.....	5	5th	Paving	Hough.....	Euclid	897 77
2618	13179	Ontario.....	5	3rd	Re-paving	Lake	Summit	552 95
2576	12367	Odell Alley	5	3rd	Paving	Orange	Cherry Alley	201 49

TABLE No. 135—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1898.

G. R.	Ord.	Name of Street.	Number of Installments.	Installment of 1898.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
2634	15062	Osborn.....	5	2nd	Paving.....	Central.....	Scovill.....	\$ 1,302 23
2712	17173	Ontario.....	5	2nd	Re-paving.....	Factory.....	Central.....	866 63
2724	17775	Oliver.....	5	2nd	Paving.....	Euclid.....	Superior.....	3,104 27
2837	12860	Osborn.....	3	3rd	Sewer.....	Central.....	Scovill.....	1,213 66
2853	17448	Ottawa.....	3	2nd	".....	Marcelline.....	Jones.....	1,587 16
2847	17689	Oakdale.....	3	2nd	".....	Quincy.....	Woodland.....	1,655 42
2878	16669	Oliver.....	3	2nd	".....	Superior.....	Euclid.....	1,969 04
2872	18531	Orange.....	3	1st	".....	Forest.....	Humboldt.....	715 71
3202	20250	Orange.....	5	1st	Paving.....	Humboldt.....	Case.....	2,508 23
3076	22281	Oxford.....	3	1st	Sewer.....	St. Clair.....	L. S. & M. S. Ry.....	2,040 63
3060	21176	Oak Park.....	1	1st	Curbing.....	Detroit.....	794 feet south.....	746 44
1976	3861	Park Place.....	5	5th	Paving.....	St. Clair.....	Rockwell.....	620 17
2452	8296	Platt.....	5	4th	".....	East Madison.....	C. & P. R. R.....	1,629 74
2274	11435	Princeton.....	5	3rd	".....	Euclid.....	Hough.....	3,501 36
2640	15059	Putnam.....	5	2nd	".....	Scovill.....	Central.....	1,457 52
2700	16334	Plymouth.....	5	2nd	".....	Cedar.....	Central.....	1,507 76

TABLE No. 135—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1898.

G. R.	Ord.	Name of Street.	Number of Installments.	Instalment of 1898.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
2838	12861	Prosser.....	3	3rd	Sewer	Wilson	Lyon.....	\$ 746 67
2860	17694	Pratt.....	4	2nd	"	Woodland Hills	East end of Pratt.....	734 62
2756	19976	Prospect.....	5	1st	Paving	Erie	Brownell	725 42
3332	22486	Perkins.....	5	1st	"	Case	Wilson.....	8,799 76
3278	21861	Princeton.....	5	1st	"	Hough	Linwood.....	1,219 70
3334	22527	Putnam.....	5	1st	"	Scovill	Woodland	1,584 27
2274	11435	Princeton	1	1st	"	Uncollected Addition	No. 579	19 62
2452	8226	Platt.....	1	1st	"	"	No. 587	157 41
2070	8502	Pearl	5	4th	Re-paving	Vermont	Detroit	233 82
2862	15457	Penn.....	5	2nd	Paving	Bridge.....	Monroe.....	2,156 28
2848	17690	Pleasant.....	4	2nd	Sewer	Clark	1,150 feet southerly.....	1,002 86
2375	17447 21077	Purdy	4	1st	"	Lorain.....	Walworth	1,248 12
2868	19611	Prim.....	2	1st	Grading	Clark	Storer	2,027 98
2762	19968	Pearl.....	5	1st	Re-paving	Franklin	Walworth Run Bridge....	5,959 92
1660	4855	Quincy.....	5	5th	Paving	Giddings	Bolton.....	6,005 97
2813	12423	Quebec.....	3	3rd	Sewer	Oakdale	Doan	1,694 39

TABLE No. 135—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1898.

G. R.	Ord.	Name of Street.	Number of Installments.	Installation of 1898.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
3264	21702	Quincy.....	5	1st	Paving	Bolton.....	Woodland Hills	\$ 10,492 26
3282	22121	Quimby.....	5	1st	"	Willson	Giddings	4,186 08
3002	17872	Quebec.....	1	1st	Curbing	Oakdale	Doan	1,400 18
1658	4856	Quincy.....	5	5th	Paving	Willson	Giddings	4,291 47
2680	15728	Race.....	5	2nd	"	Ontario.....	388 feet westerly.....	391 24
2706	16786	Republic.....	5	2nd	"	Euclyd	Lamont	2,300 88
2375	9447	Rutland	3	3rd	Sewer	Kinsman	750 feet south.....	585 04
2825	12862	Rockert.....	3	3rd	"	Petrie	Dolloff	345 61
2411	11000	Ruggles.....	3	3rd	"	Miles	Pratt	488 33
2438	12183	Remington	3	3rd	"	Congress	Bolton.....	505 00
2439	12181	Rawlings.....	3	3rd	"	E. Madison	C. & P. R. R.....	1,242 38
2862	17992	Russell.....	3	1st	"	Superior	Wade Park	842 75
2451	19663	Rockford (additional).....	1	1st	"	"	North end	156 64
3328	22425	Richland	5	1st	Paving	Central.....	Quincy	1,226 38
1530	2752	Rockwell.....	1	1st	Re-paving	Uncollected Additions.....	No. 552 and 553	496 41
1978	3667	Randall.....	5	5th	Paving.....	Lorain.....	Bridge.....	357 12

TABLE No. 135—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1898.

G. R.	Ord.	Name of Street.	Number of Installments.	Installment of 1898.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
2894	16338	Ridge.....	5	2nd	Re-paving	Lorain.....	Dennison.....	\$ 6,583 18
3296	22203	R. ot.....	5	1st	Paving	Franklin.....	Lorain.....	2,936 05
2816	12630	Rhodes.....	3	3rd	Sewer	Clark.....	750 feet southerly.....	379 50
2332	17178	Robert.....	3	2nd	"	Burton.....	Selden.....	311 41
1150	200	Rhodes and Woodbridge.....	10	10th	"	Original lot 55.....	Woodbridge.....	61 25
2170	200, V. 1, Pg. 412	Rhodes.....	10	10th	"	Woodbridge.....	S. line of orig. lot No. 55.....	415 21
3016	20790	Rowley.....	4	1st	"	Jennings.....	Merchant.....	660 79
3238	20542	Rose.....	5	1st	Paving.....	Bridge.....	Jay.....	316 05
3290	22124	Randall.....	5	1st	"	Harbor.....	Bridge.....	1,277 87
2725	17875	Streator.....	5	2nd	"	Quebec.....	Cedar.....	2,602 10
2946	15057	Sjanger.....	5	2nd	"	Hough.....	660 feet southerly.....	667 21
2650	15444	Soueca.....	5	2nd	Re-paving	Superior.....	St. Clair.....	1,505 60
2566	13208	Sumner.....	5	3rd	Paving.....	Erie.....	Brownell.....	384 09
2548	13209	Seelye.....	5	3rd	"	Woodland.....	Julia.....	1,767 10
2042	5182	St. Clair.....	5	5th	"	Water.....	Erie.....	5,047 05
1982	3666	Sheriff.....	5	5th	Re-paving	Bolivar.....	Eagle.....	394 87

DEPARTMENT OF ACCOUNTS.

TABLE No. 135—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1898.

G. R.	Ord.	Name of Street.	Number of Install- ments.	Instal- ment of 1898.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
1980	3683	Second.....	5	5th	Paving.....	Cedar.....	Central.....	\$ 1,341 79
1984	3659	Sibley.....	5	5th	".....	Perry.....	Hayward.....	2,301 93
2046	4831	Sterling.....	5	5th	".....	Hamilton.....	Euclid.....	5,921 11
1894	3657	Superior.....	5	5th	".....	Willson.....	East line of Ansel.....	14,665 45
1574	4845	South Water.....	5	5th	Re-paving.....	West.....	Superior.....	1,114 92
2339	12863	Stanard.....	3	3rd	Sewer.....	Brunswick.....	Willson.....	644 54
2826	12864	Schaefer.....	3	3rd	".....	E. Madison.....	Becker.....	682 49
2809	12048	Sowinski.....	3	3rd	".....	Woolsey.....	Ansel.....	1,259 52
2834	17180	Simon.....	5	2nd	".....	Woolsey.....	Ansel.....	615 32
2894	16861	Svoboda.....	4	2nd	".....	Forest.....	East end.....	570 33
2909	17179	Stoneman.....	4	2nd	".....	Kinsman.....	1,050 feet southerly.....	837 81
2933	14942 A	Superior.....	3	2nd	".....	Erie.....	Mulron.....	232 33
2994	19975	St. Clair.....	3	1st	".....	Wason.....	Lawrence.....	1,080 68
3037	21708	Spilker.....	3	1st	".....	E. Madison.....	Diemer.....	286 50
2780	19567	Sayles.....	5	1st	Paving.....	Cedar.....	Quebec.....	2,122 46
3222	20256	St. Clair.....	5	1st	Re-paving.....	Water.....	C. C. C. & St. L. R. R.....	492 97

TABLE No. 135—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1898.

G. R.	Ord.	Name of Street.	Number of Installments.	Installments of 1898.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
3224	20257	Superior	5	1st	Re-paving	Spring	Cuyahoga River	\$ 320 45
3263	21724	Steinway	5	1st	Paving	Woodland Hills	South Woodland	1,980 55
3000	19147	So. Willson	1	1st	Grading	Fleet	Mound	553 59
2864	17679	Sophia	2	1st	Grading & gutter pave	Woodland Hills	Wilhelm	638 94
3018	18276	Stoneman	1	1st	Grading	Kinsman	1,000 feet southerly	475 13
2738	18004	Sherman	3	2nd	Opening	E. L. Towson & Grimsbaw	East Madison	875 38
2276	8397 22026	Scovill (Additional)	1	1st	Paving	Willson	Cemetery	1,001 16
1314	22519	Sewer and Water	1	1st	Connections	East of river .....	.....	2,123 56
1884	3657	Superior	5	5th	Paving	Uncollected Addition	No. 582	54 37
606	22433	Sidewalks	1	1st	Delinquent	East of river .....	.....	5,258 58
2182	4975 10317	Seneca (W. of R.)	5	5th	Re-paving	Upper Seneca St. bridge	Jefferson	3,538 17 -
2530	12396	State	5	3rd	Paving	Franklin	Washington	1,161 72
2626	14401	Soranton	5	2nd	"	Clark	Pearl	8,511 41
2897	16952	Shaw	3	2nd	Sewer	Ridge	Easterly end of street	352 74
2822	12639	Scovill Lane	3	3rd	"	Lake	Detroit	459 15
2853	13512	State	3	2nd	"	Washington	Detroit	186 45

TABLE No. 135—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1898.

G. R.	Ord.	Name of Street.	Number of Lots or Blocks.	Installments of 1898.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
2995	19471	Seward	3	1st	Sewer	Lake.....	Detroit.....	\$ 743 72
3049	21054	Scott Alley	4	1st	"	Courtland.....	Scott.....	168 68
3071	22210	Storer	3	1st	"	Burton.....	Gauge.....	544 34
3214	20252	Scott	5	1st	Paving.....	Detroit.....	Bridge.....	2,052 89
3212	21074	Scranton	5	1st	Re-paving	Seneca.....	Cliff	1,171 74
3294	22159	Scott	5	1st	Paving.....	Bridge.....	Scott Alley	1,346 40
3312	22352	Scott Alley	5	1st	"	Scott.....	Courtland	249 51
3052	21699	Storer	1	1st	Grading.....	Rhodes.....	1.160 feet easterly.....	375 41
2688	16964	Scranton	5	2nd	Re-paving	Seneca.....	Paraffine.....	4,185 23
3070	22209	Storer	3	1st	Sewer	Burton.....	Rhodes	769 02
696	22493	Sidewalks	1	1st	Delinquent	West of river.....	.....	2,209 30
1314	22519	Sewer and Water.....	1	1st	Connections.....	West of river.....	.....	1,830 49
2044	5183	Thiden	5	5th	Paving.....	Crawford Road.....	Euclid.....	1,406 00
2843	12866	Tod.....	5	3rd	Sewer	Heisley.....	Fleet.....	725 62
2847	13286	Tod.....	3	3rd	"	Fleet.....	Fullerton.....	130 13
2936	17583	Tod.....	3	2nd	"	Francis.....	Union	6,303 54

TABLE No. 135—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1898.

G. R.	Ord.	Name of Street.	Number of Installments.	Installments of 1898.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
2869	18346	Talbot.....	3	1st	Sewer	Amesbury	Ansel.....	\$ 510 27
2877	19146	Tustin.....	2	1st	{ Grading and Gutter } Paving.	625 ft. easterly from Forest	Easterly end.....	159 33
2886	17533	Tod	1	1st	Sewer	Uncollected Addition.....	No. 535.....	11 33
2820	12631	Tremont.....	3	3rd	"	Pelton	Starkweather.....	1,087 60
2898	16789	Tennessee.....	8	2nd	"	L. S. & M. S. R'y.....	Lake	1,654 60
2944	17571	Train.....	3	2nd	"	Barton	Junction.....	1,341 53
2835	17446	Thurman	3	2nd	"	Literary	College	344 67
2881	16005	Titus	3	2nd	"	Seranton	East View	547 30
2945	17572	Train.....	3	2nd	"	Junction	100 feet west of Swiss.....	490 67
2166	2-279	Terrace.....	5	5th	"	Pearl.....	Park Place	175 45
3023	21058	Thurman	3	1st	"	Literary	Pelton.....	332 29
3228	20259	Taylor.....	5	1st	Paving	Detroit	Lorain.....	3,663 40
2835	17446	Thurman	1	1st	Sewer	Uncollected Addition.....	No. 570	6 00
3310	22524	Thurman	5	1st	Paving	Literary	Pelton	818 43
2608	13430	Van Buren	5	3rd	"	Central.....	Quincy.....	1,116 95
2568	13206	Vine.....	5	3rd	"	Scovill	Woodland	1,318 00

TABLE No. 135—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1898.

G. R.	Ord.	Name of Street.	Number of Installments.	Installment of 1898.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
2949	17683	Valley.....	5	2nd	Sewer	Harvard.....	Finney.....	\$ 477 40
2758	19964	Vienna.....	5	1st	Paving	Cedar.....	South end of street.....	2,060 39
2866	18610	Vanok.....	3	1st	Curbing	Fort.....	Kinsman.....	1,887 47
3013	20788	Vestry.....	3	1st	Sewer	Pearl.....	York	477 33
2702	16383	Willson.....	5	2nd	Paving	Bower.....	Broadway	10,841 38
2704	16738	Wade Park.....	5	2nd	"	Norwood.....	Anndale.....	7,781 31
2524	16737	Wood.....	5	2nd	"	St. Clair.....	Summit.....	1,841 95
2628	14400	Waring.....	5	2nd	"	Payne.....	Perkins.....	885 49
2610	13482	Woodland Court	5	3rd	"	Woodland	S. E. of Woodland Court	867 23
2570	13207	Webster	5	3rd	"	Erie	Brownell	1,427 25
2362	8299	Windsor.....	5	4th	"	Cass	Willson.....	1,726 69
2554	11686	Woodland	5	3rd	Re-paving	Eagle.....	Central.....	1,148 63
2190	6353	Water	5	5th	Paving	North line of St. Clair.....	North curb of Front	2,270 13
2058	4852	Water	5	5th	Re-paving	Superior.....	North line of St. Clair.....	1,748 93
2424	11451	Wabash	3	3rd	Sewer	Kinsman	Trenton	680 06
2802	12060½	Willson	3	3rd	"	Track	Kingsbury Run.....	3,273 84

TABLE No. 135—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1898.

G. R.	Ord.	Name of Street.	Number of Install- ments.	Install- ment of 1898.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
2837	17444	Woodland	3	2nd	Sewer	Eagle	Cross	\$ 680 90
2838	17442	Woodland	3	2nd	"	Erie	Maple	2,317 34
2840	17451	Woodland	3	2nd	"	Case	Willson	1,187 99
2839	17452	Woodland	3	2nd	"	Maple	Case	1,419 81
2884	19718	Wade Park	3	1st	"	Dunham	Norwood	111 83
2856	13514	Walnut	3	2nd	"	Muirson	Erie	442 33
3027	20935	Wilhelm	4	1st	"	Holton	South end	1,019 97
2278	13518	Warner Road	3	3rd	Grading and Culvert ..	Broadway ..	Grand Division ..	6,290 47
3 30	22426	White	5	1st	Paving	Willson	Norwood	2,024 62
3006	20233	Wilhelm	1	1st	Curbing	Holton	South end	1,888 94
3344	22520	Wallingford Court	5	1st	Paving	Woodland	South end	910 25
2938	17442	Woodland	1	1st	Sewer	Uncollected Addition ..	No. 580	16 67
2644	16458	Woodbridge	5	2nd	Paving	Pearl	Rhodes	3,548 03
2616	13515	Waverly	5	3rd	"	Detroit	Lorain	3,219 02
2612	12174	Ward	5	3rd	"	Lorain	Monroe	1,266 60
2736	18003	West Clinton	5	2nd	"	Gordon	Waverly	1,828 34

TABLE No. 135—Continued.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1898.

G. R.	Ord.	Name of Street.	Number of Installments.	Inst. of 1898.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
2428	11452	Wenham.....	3	3rd	Sewer	Clark	Brinsmade.....	\$ 709 68
2885	16884	Watterson.....	3	2nd	"	Detroit	West Madison	1,373 47
2240	13887	Walworth	3	2nd	"	Gordon	583 ft. N. E. from Willey..	1,889 04
2886	14580	West Roy.....	3	1st	"	Detroit	Franklin	613 33
3048	19870	West Trenton	3	1st	"	Detroit	Franklin	618 66
3031	21424	Warden	3	1st	"	Pearl	East End.....	277 96
3040	21059	West Madison.....	3	1st	"	Pennington	Malcolm.....	1,847 38
3042	21706	West Madison.....	3	1st	"	Gordon	Pennington.....	2,373 41
3014	21712	West Clinton.....	3	1st	"	Watterson.....	220 feet west of Gordon....	1,640 72
3041	20789	West Madison.....	3	1st	"	Malcom	Wellington	2,462 48
3210	21711	Woodbine	5	1st	Paving	Fulton	Randall	2,126 65
3208	20249	Whitman	5	1st	"	Woodbine	Harbor	2,082 54
3282	20248	Willett	5	1st	"	Lorain	100 feet south of Monroe...	4,766 79
3242	20359	West Madison.....	5	1st	"	Waverly.....	Gordon	1,428 04
498	20543	Walworth	10	9th	Opening	Saratton	Gordon	9,142 25
498	1569	Walworth	1	1st	"	Uncollected Addition.....	Nos. 569, 571, 572, 576, 577..	142 77

TABLE No. 135—Concluded.
LIST OF SPECIAL ASSESSMENTS LEVIED IN THE TAX OF 1898.

G. R.	Ord.	Name of Street.	Number of Installments.	Installment of 1898.	Kind of Improvement.	LIMITS.		Amount.
						From	To	
2322	13517	York.....	5	3rd	Paving ..	Franklin Pl. and Carroll...	Bridge and Monroe.....	\$ 2,686 60
2422	11453	Young.....	3	3rd	Sewer ..	Clark	Brinsmade.....	724 95
2321	12384	York..	3	3rd	" ..	Lorain.....	Carroll	48 50
2322	13517	York.....	1	1st	Paving ..	Uncollected Addition.....	No. 586	79 16
		Total						\$ 751,120 81

PART VI.

THE SEWER DISTRICTS.

TABLE No. 136.

Report on Sewer Districts in City of Cleveland, Ohio.

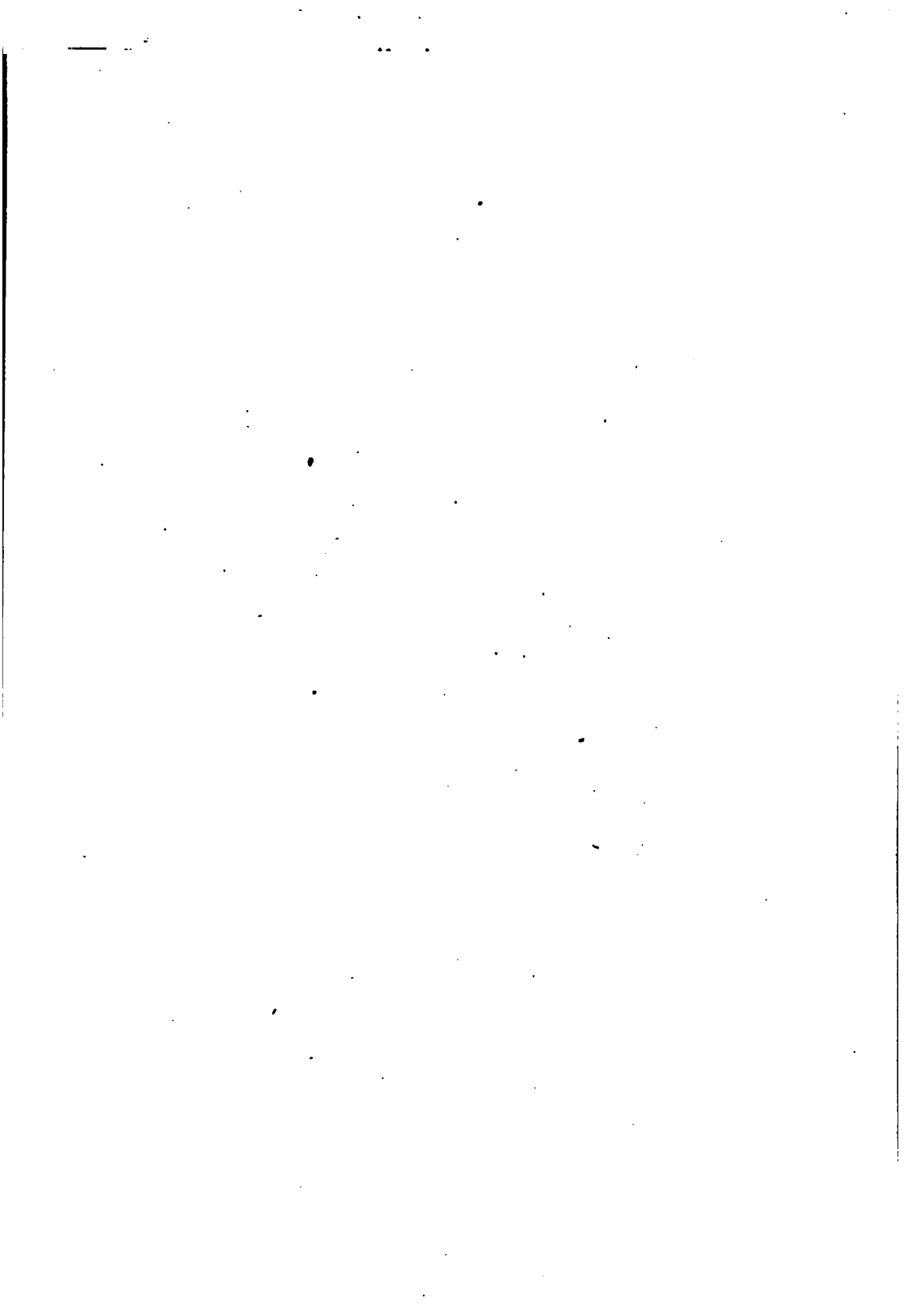
Authority for the creation of a system of sewerage and the establishment of sewer districts may be found in the Revised Statutes of Ohio, as follows :

SECTION 2366. When it becomes necessary in the opinion of the council of a city or village to provide a system of sewerage and drainage for such municipal corporation, or any part thereof, it shall be the duty of the board of improvements to devise and form, or cause to be formed, a plan of sewerage and drainage for the whole city or village, or such part thereof as may be designated by the council.

SEC. 2370. The plan so devised shall, in the descretion of the council, be formed with the view of the division of the corporation into as many sewer districts as may be deemed necessary for securing sufficient drainage and sewerage; each of the districts shall be designated by name and number, and consist of one or more main or principal sewers with the necessary branches and connections, the main or principal sewers having their outlet in a river or other proper place; and the districts shall be so arranged as to be independent of each other so far as practicable.

SEC. 2379. The council shall provide for assessing the cost and expense of constructing main sewers, upon the lots and lands bounding and abutting upon the streets, lanes, alleys, highways, market spaces, public landings and commons, in or along which the same shall pass, by the feet front, or according to the valuation of the same on the tax list, or according to benefits as it shall determine.

SEC. 2384. In no case shall the assessment exceed the sum of two dollars per foot front on the property assessed; and the excess shall be paid out of the sewer fund of the corporation.



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TABLE No. 136—Continued.

Sewer District No. 1.

Established by ordinance passed May 22, 1860, and amended as at present defined September 22, 1874.

Main Sewer.

CASE AVENUE, from Woodland avenue to Lake Erie.

No sewer bonds outstanding December 31, 1898.

Valuation, 1896, \$7,558,370.00.

Estimate for tax levy of 1898, made June 1, 1898 :

Cash on hand.....	\$ 15,282 63
Received from 1897 tax.....	
Total.....	\$ 15,282 63
Pay 1898 repairs.....	\$ 1,000 00
Pay 1898 interest.....	
Pay 1898 bonds.....	
Pay 1899 repairs.....	2,000 00
Pay 1899 interest.....	
Pay 1899 bonds.....	
Case avenue sewer.....	12,000 00
Total.....	15,000 00
Surplus.....	\$ 282 63
No levy.	

Sewer District No. 2.

Established by ordinance passed May 22, 1860.

Main Sewers.

STERLING AVENUE, from Woodland avenue to St. Clair to Alabama to Lake Erie.

PERRY STREET, from Woodland to Euclid to North Perry to St. Clair street to Alabama to Lake Erie.

DODGE STREET, from Euclid avenue to Lake street to Davenport to Dietmer's Run to Lake Erie.

No Sewer bonds outstanding December 31, 1898.

Valuation, 1898, \$11,167,760.00.

Estimate for tax levy of 1898, made June 1, 1898 :

Cash on hand.....	\$ 3,453 57
Received from 1897 tax.....	
Total.....	\$ 3,453 57
Pay 1898 repairs.....	\$ 3,500 00
Pay 1898 interest.....	
Pay 1898 bonds.....	
Pay 1899 repairs.....	4,000 00
Pay 1899 interest.....	
Pay 1899 bonds.....	
Hulbert sewer.....	2,500 00
Judd sewer.....	500 00
Muirson sewer.....	3,500 00
Oliver sewer.....	5,800 00
Total.....	19,800 00
Deficiency.....	\$ 16,346 43
Levy, 2 mills.	

TABLE NO. 136—Continued.

Sewer District No. 3.

Established by ordinance passed May 22, 1860, and amended as at present defined May 7, 1861.

Main Sewers.

WOODLAND AVENUE, from Erie street to Eagle street to Canal street, thence to the culvert under the canal opposite the west end of Eagle street.

SENECA STREET, from Superior to Lake Erie.

ONTARIO STREET, from Eagle street to Lake Erie.

ERIE STREET, from Woodland avenue to Lake Erie.

Sewer bonds outstanding December 31, 1898, \$14,000.00.

Valuation, 1898, \$33,447,610.00.

Estimate for tax levy of 1898, made June 1, 1898:

Cash on hand.....	\$ 57,613 89
Receive from 1897 tax.....	15,000 00
Total	\$ 72,613 89
Pay 1898 repairs.....	\$ 3,300 00
Pay 1898 interest.....	1,155 00
Pay 1898 bonds.....	35,000 00
Pay 1899 repairs.....	4,000 00
Pay 1899 interest.....	2,310 00
Pay 1899 bonds.....	
Erie sewer.....	69,000 00
Muirson sewer.....	41,200 00
Superior sewer.....	8,700 00
Walnut sewer.....	1,000 00
Total	165,665 00
Deficiency.....	\$ 93,051 11
Issue bonds.....	60,000 00
	\$ 33,051 11

Levy, 1 mill.

Sewer District No. 4.

Established by ordinance passed May 22, 1860.

Main Sewers.

MULBERRY STREET, from Pearl to Old Ship Canal.

DETROIT STREET, from Kentucky street to Center to Cuyahoga River.

BRIDGE STREET, from Fulton street to Franklin avenue to Columbus to Cuyahoga River.

LORAIN STREET, from Fulton street to Columbus to Cuyahoga River.

MONROE STREET to Willett to Pearl to Walworth Run.

PEARL STREET (proposed), from Franklin to Brevier to Walworth St.

Sewer district bonds outstanding December 31, 1898, \$101,000.00.

Valuation, 1898, \$5,003,930.00.

Estimate for tax levy of 1898, made June 1, 1898:

Cash on hand.....	\$ 8,942 52
Receive from 1897 tax.....	7,000 00
Total	\$ 15,942 52
Pay 1898 repairs.....	\$ 3,000 00
Pay 1898 interest.....	2,020 00
Pay 1898 bonds.....	
Pay 1899 repairs.....	3,500 00
Pay 1899 interest.....	4,040 00
Pay 1899 bonds.....	
Walworth sewer.....	50,000 00
Total	63,560 00
Deficiency.....	\$ 48,617 48
Issue bonds.....	30,000 00
	\$ 16,617 48

Levy 3 mills.

TABLE No. 136—Continued.

Sewer District No 5.

Established by ordinance passed May 22, 1860, and amended as at present defined September 2, 1873.

Main Sewers.

COURTLAND STREET, from Twenty-third street to Lorain street.

OAKLAND STREET, Main from Lake Erie and Waverly street in Waverly to Twenty-third avenue to Taylor to Franklin to Harbor to Randal to Lorain.

WAVERLY STREET, from Twenty-third avenue to Lorain street.

LORAIN STREET, from Courtland street to Gordon avenue.

Sewer district bonds outstanding December 31, 1898, \$32,000.00.

Valuation, 1898, \$4,800,060.00.

Estimate for tax levy of 1898, made June 1, 1898:

Cash on hand.....		\$ 12,972 98
Receive from 1897 tax.....		6,000 00
Total.....		\$ 18,972 98
Pay 1898 repairs.....	\$ 1,800 00	
Pay 1898 interest.....	640 00	
Pay 1898 bonds.....		
Pay 1899 repairs.....	2,500 00	
Pay 1899 interest.....	1,280 00	
Pay 1899 bonds.....		
Walworth sewer.....	7,400 00	
Gordon sewer.....	20,000 00	
Total.....		38,620 00
Deficiency.....		\$ 14,647 07

Levy, 3 mills.

Sewer District No. 6.

Established by ordinance passed May 3, 1870.

Main Sewer.

BROADWAY, from Kingsbury Run to Perry street.

No sewer district bonds outstanding December 31, 1898.

Valuation, 1898, \$336,170.00.

Estimate for tax levy of 1898, made June 1, 1898:

Cash on hand.....		\$ 825 79
Receive from 1897 tax.....		
Total.....		\$ 825 79
Pay 1898 repairs.....	\$ 400 00	
Pay 1898 interest.....		
Pay 1898 bonds.....		
Pay 1899 repairs.....	500 00	
Pay 1899 interest.....		
Pay 1899 bonds.....		
Muirson sewer.....	600 00	
Total.....		1,500 00
Deficiency.....		\$ 674 21

Levy, 2 mills.

TABLE NO. 136—Continued.

Sewer District No. 7.

Established by ordinance passed May 3, 1870, and amended July 9, 1872, and May 20, 1873, and amended as present defined June 17, 1873.

Main Sewers.

WILLSON AVENUE, from Lake Erie to Julia street.

MARQUETTE, from Lake Erie to Willson.

DUNHAM AVENUE, from Euclid to Superior to Willson.

No sewer bonds outstanding December 31, 1898.

Valuation, 1898, \$13,920,150.00.

Estimate for tax levy of 1898, made June 1, 1898:

Cash on hand.....	\$ 22,625 44
Receive from 1897 tax.....	13,000 00
Total	\$ 35,625 44
Pay 1898 repairs.....	\$ 2,000 00
Pay 1898 interest.....	250 00
Pay 1898 bonds.....	10,000 00
Pay 1899 repairs.....	3,500 00
Pay 1899 interest.....	
Pay 1899 bonds.....	
Norwood sewer.....	20,000 00
Superior sewer.....	20,000 00
Total	55,750 00
Deficiency	\$ 20,124 56

Levy, 2 mills.

Sewer District No. 8.

Established by ordinance and as at present defined July 11, 1871.

Main Sewers.

MULBERRY STREET, from Old River Bed to Main street.

PEARL STREET, from Mulberry to Detroit street.

No sewer district bonds outstanding December 31, 1898.

Valuation, 1898, \$404,270.00.

Estimate for tax levy of 1898, made June 1, 1898:

Cash on hand.....	\$ 682 56
Receive from 1897 tax.....	180 00
Total	\$ 862 56
Pay 1898 repairs.....	\$300 00
Pay 1898 interest.....	
Pay 1898 bonds.....	
Pay 1899 repairs.....	600 00
Pay 1899 interest.....	
Pay 1899 bonds.....	
Total	900 00
Deficiency	\$ 37 44

Levy, 1 mill.

TABLE NO. 136—Continued.

Sewer District No. 9.

Established by ordinance passed August 12, 1873.

Main Sewer.

WATER STREET, from Superior to Front street to point opposite Spring street, thence north to Lake Erie.

No sewer district bonds outstanding December 31, 1898.

Valuation, 1898, \$12,463,880.00.

Estimate for tax levy of 1898, made June 1, 1898:

Cash on hand.....	\$ 3,505 24
Receive from 1897 tax .....	.....
Total	\$ 3,505 24
Pay 1898 repairs	\$ 1,300 00
Pay 1898 interest.....	.....
Pay 1898 bonds.....	.....
Pay 1899 repairs	1,500 00
Pay 1899 interest.....	.....
Pay 1899 bonds.....	.....
Total	2,800 00
Surplus.....	\$ 705 24

No levy.

Sewer District No. 10.

Established by ordinance passed September 2, 1873.

Main Sewers.

UNIVERSITY STREET, from South street to Cuyahoga street to Mahoning street to Cuyahoga River.

PELTON AVENUE, from University street to Starkweather avenue.

Sewer district bonds outstanding December 31, 1898, \$7,000.00.

Valuation, 1898, \$710,290.00.

Estimate for tax levy of 1898, made June 1, 1898:

Cash on hand.....	\$ 1,225 36
Receive from 1897 tax	900 00
Total	\$ 2,125 36
Pay 1898 repairs	\$ 700 00
Pay 1898 interest.....	200 00
Pay 1898 bonds.....	1,000 00
Pay 1899 repairs	1,000 00
Pay 1899 interest.....	350 00
Pay 1899 bonds.....	1,000 00
Total	4,250 00
Deficiency	\$ 2,124 64

Levy, 3 mills.

TABLE No. 136—Continued.

Sewer District No. 11.

Established by ordinance passed September 2, 1873.

Main Sewers.

KENILWORTH STREET, from Walworth street to Merchant avenue.

SCRANTON AVENUE, from Kenilworth street to Pearl street.

JENNINGS AVENUE, from Kenilworth street to Holmden avenue.

Sewer district bonds outstanding December 31, 1898, \$35,000.00.

Valuation, 1898, \$2,914,170.00.

Estimate for tax levy of 1898, made June 1, 1898:

Cash on hand.....	\$ 14,187 67
Receive from 1897 tax	3,800 00
Total.....	\$ 17,987 67
Pay 1898 repairs.....	\$ 200 00
Pay 1898 interest.....	700 00
Pay 1898 bonds.....	.....
Pay 1899 repairs.....	800 00
Pay 1899 interest.....	1,400 00
Pay 1899 bonds.....	.....
Walworth sewer.....	35,200 00
Total.....	38,300 00
Deficiency.....	\$ 20,312 33
Issue bonds.....	12,000 00
	\$ 8,312 33

Levy, 3 mills.

Sewer District No. 12.

Established by ordinance passed September 2, 1873, and amended as at present defined by ordinance No. 2,513, passed September 6, 1892.

Main Sewer.

PEARL STREET, from Walworth street to Library street.

Sewer district bonds outstanding December 31, 1898, \$50,000.00.

Valuation, 1898, \$2,685,430.00.

Estimate for tax levy of 1898, made June 1, 1898:

Cash on hand.....	\$ 9,452 67
Receive from 1897 tax	3,800 00
Total.....	\$ 13,352 67
Pay 1898 repairs.....	\$ 1,100 00
Pay 1898 interest.....	1,000 00
Pay 1898 bonds.....	.....
Pay 1899 repairs.....	1,200 00
Pay 1899 interest.....	2,000 00
Pay 1899 bonds.....	.....
Walworth sewer.....	50,800 00
Total.....	56,100 00
Deficiency	\$ 42,747 33
Issue bonds.....	35,000 00
	\$ 7,747 33

Levy, 3 mills.

TABLE No. 136—Continued.

Sewer District No. 13.

WEST CLEVELAND SEWER DISTRICT.

Established by ordinance No. 3593, passed July 2, 1894, and ordinance No. 11920, passed July 6, 1896.

Main Sewers.

DETROIT STREET, from Gordon avenue to Highland avenue.

LAKE AVENUE, from Detroit street to L. S. & M. S. R. R.

GORDON AVENUE, from Bridge street to L. S. & M. S. R. R.

L. S. & M. S. R. R., from Alger street to Lake avenue.

Sewer district bonds outstanding December 31, 1898, \$188,000.00.

Valuation, 1898, \$2,009,690.

Estimate for 1898 tax levy, made June 1, 1898:

Cash on hand.....	\$ 7,579 71
Receive from 1897 tax	3,600 00
Total	\$ 11,179 71
Pay 1898 repairs.....	\$ 1,800 00
Pay 1898 interest.....	1,280 00
Pay 1898 bonds.....	.....
Pay 1899 repairs.....	2,000 00
Pay 1899 interest.....	2,520 00
Pay 1899 bonds.....	.....
Boulevard sewer.....	16,300 00
Detroit sewer.....	4,600 00
Desmond sewer.....	70,000 00
Eliot sewer.....	11,000 00
Franklin sewer.....	5,000 00
Malcolm sewer.....	9,700 00
Watterson sewer	20,000 00
Total	144,180 00
Deficiency	\$ 133,000 29
Issue bonds.....	125,000 00
	\$ 8,000 29

Levy, 3 mills.

Sewer District No. 14.

Established by ordinance No. 1468, passed September 22, 1890.

Main Sewer.

KINSMAN STREET, from Kingsbury Run to East Madison avenue.

Sewer district bonds outstanding December 31, 1898, \$82,000.00.

Valuation, 1898, \$2,981,960.00.

Estimate for 1898 tax levy, made June 1, 1898:

Cash on hand.....	\$ 5,844 64
Receive from 1897 tax	2,500 00
Total	\$ 8,344 64
Pay 1898 repairs.....	\$ 800 00
Pay 1898 interest.....	1,520 00
Pay 1898 bonds.....	2,000 00
Pay 1899 repairs.....	2,500 00
Pay 1899 interest.....	2,940 00
Pay 1899 bonds.....	2,000 00
Forest sewer.....	12,000 00
Francis sewer.....	10,000 00
Tod sewer.....	22,100 00
Total	55,860 00
Deficiency	\$ 47,515 36
Issue bonds.....	38,000 00
	\$ 9,515 36

Levy, 3 mills.

TABLE No. 136—Continued.

Sewer District No. 15.

EAST MADISON AVENUE SEWER DISTRICT.

Established by ordinance passed August 15, 1881; amended by ordinance passed July 10, 1882; amended by ordinance passed December 11, 1882; amended by ordinance No. 1522, passed October 20, 1890; as at present defined by ordinance No. 1889, passed July 27, 1891.

Main Sewers.

EAST MADISON AVENUE, from Holton to Lake Erie.

SUB MAINS in St. Clair, Superior, Wade Park, Hough, Euclid, Cedar, Quincy, Woodland, Holton.

KINSMAN STREET, from E. Madison to Woodland Hills avenue.

UNION STREET (proposed), Groton to Woodland Hills.

Sewer district bonds outstanding December 31, 1898, \$266,000.00.

Valuation, 1898, \$17,730,240.00.

Estimate for 1898 tax levy, made June 1, 1898:

Cash on hand.....	\$ 33,498 26
Receive from 1897 tax.....	23,000 00
Total	\$ 56,498 26
Pay 1898 repairs	\$ 3,800 00
Pay 1898 interest.....	6,702 50
Pay 1898 bonds.....	29,000 00
Pay 1899 repairs	5,000 00
Pay 1899 interest.....	12,100 00
Pay 1899 bonds.....	28,000 00
Chandler sewer.....	1,500 00
Francis sewer.....	3,200 00
Oakdale sewer.....	8,000 00
Tod sewer.....	3,100 00
Kinsman sewer.....	10,000 00
Total	110,402 50
Deficiency ..	\$ 53,904 24

Levy, 3 mills.

TABLE No. 136—Continued.

Sewer District No. 16.**WALWORTH RUN SEWER DISTRICT.**

Established by ordinance passed April 9, 1883, and amended as at present defined by ordinance 2401, passed April 1, 1892.

Main Sewers.

BURTON STREET, from Walworth to Clark.

BURTON STREET, from Walworth to Cook.

CLARK AVENUE, from Burton to Alum.

CLARK AVENUE, from Walworth to Lorain.

RIDGE AVENUE, from Clark to Dennison.

Ravine Street Main Sewers.

LORAIN STREET, from Gordon to Wellington.

WALWORTH STREET, proposed main.

Sewer district bonds outstanding December 31, 1898, \$148,000.00.

Valuation, 1898, \$2,904,430.00.

Estimate for 1898 tax levy, made June 1, 1898:

Cash on hand	\$ 18,488 33
Receive from 1897 tax	4,000 00
Total	\$ 22,488 33
Pay 1898 repairs	\$ 800 00
Pay 1898 interest.....	2,215 00
Pay 1898 bonds.....	8,000 00
Pay 1899 repairs	1,000 00
Pay 1899 interest.....	4,030 00
Pay 1899 bonds.....	9,000 00
Walworth sewer	50,200 00
Total	75,245 00
Deficiency	\$ 52,756 67
Issue bonds.....	40,000 00
	\$ 12,756 67

Levy, 3 mills.

TABLE No. 136—Continued.

Sewer District No. 17.**BROADWAY SEWER DISTRICT.**

Established by ordinance passed August 6, 1883.

Main Sewers.

BROADWAY, from Kingsbury Run to Ætna.
 PETRIE STREET, from Broadway to Morgan Run.
 UNION STREET (proposed), Broadway to Groton.
 Sewer district bonds outstanding December 31, 1898, \$19,000.00.
 Valuation, 1898, \$2,914,390.00.
 Estimate for 1898 tax levy, made June 1, 1898:

Cash on hand.....	\$ 11,752 13
Receive from 1897 tax.....	3,800 00
Total.....	\$ 15,552 13
Pay 1898 repairs.....	\$ 1,100 00
Pay 1898 interest.....	430 00
Pay 1898 bonds.....	2,000 00
Pay 1899 repairs.....	1,500 00
Pay 1899 interest.....	760 00
Pay 1899 bonds.....	.....
Francis sewer.....	1,100 00
Tod sewer.....	8,800 00
Harvard sewer.....	9,000 00
Total.....	24,690 00
Deficiency.....	\$ 9,137 87

Levy, 3 mills.

Sewer District No. 18.**NEWBURG SEWER DISTRICT.**

Established by ordinance passed March 16, 1887.

Main Sewers.

BROADWAY, from Ætna to Miles.
 MARCELLINE, from Broadway to Harvard.
 MILES, from Broadway to City Limits.
 Sewer district bonds outstanding December 31, 1898, \$80,000.00.
 Valuation, 1898, \$1,718,870.00.
 Estimate for 1898 tax levy, made June 1, 1898:

Cash on hand.....	\$ 992 64
Receive from 1897 tax.....	2,600 00
Total.....	\$ 3,592 64
Pay 1898 repairs.....	\$ 400 00
Pay 1898 interest.....	1,020 00
Pay 1898 bonds.....	5,000 00
Pay 1899 repairs.....	500 00
Pay 1899 interest.....	1,790 00
Pay 1899 bonds.....	5,000 00
Miles Park sewer.....	14,700 00
Ottawa sewer.....	1,100 00
Platt sewer.....	17,200 00
Valley sewer.....	2,000 00
Finney sewer.....	1,200 00
Total.....	49,910 00
Deficiency.....	\$ 46,317 36
Issue bonds.....	40,000 00
	\$ 6,317 36

Levy, 3 mills.

TABLE NO. 136—Continued.

Sewer District No. 19.**TOD STREET MAIN SEWER DISTRICT.**

Established by ordinance No. 3198, passed August 28, 1893.

Main Sewer.

TOD STREET Main proposed.

Sewer district bonds outstanding December 31, 1898, \$23,000.00.

Valuation, 1898, \$328,430.00.

Estimate for 1898 tax levy, made June 1, 1898:

Cash on hand.....	\$ 24,563 38
Receive from 1897 tax.....	500 00
Total.....	\$ 25,063 38
Pay 1898 repairs.....	\$ 400 00
Pay 1898 interest.....	480 00
Pay 1898 bonds.....	
Pay 1899 repairs.....	500 00
Pay 1899 interest.....	920 00
Pay 1899 bonds.....	23,000 00
Total.....	25,280 00
Deficiency.....	\$ 216 62

Levy, 3 mills.

Sewer District No. 20.**WADE PARK SEWER DISTRICT.**

Established by ordinance No. 3685, passed July 23, 1894, and ordinance No. 12394, passed August 10, 1896.

Main Sewers.

MAYFIELD, from Knox to Fairview.

MURRAY HILL, from Mayfield to Adelbert.

DOAN STREET Main proposed.

No sewer district bonds outstanding December 31, 1898.

Valuation, 1897, \$1,840,220.00.

Estimate for 1898 tax levy, made June 1, 1898:

Cash on hand.....	\$ 1,252 48
Receive from 1897 tax.....	2,500 00
Total.....	\$ 3,752 48
Pay 1898 repairs.....	\$ 1,400 00
Pay 1898 interest.....	
Pay 1898 bonds.....	
Pay 1899 repairs.....	1,500 00
Pay 1899 interest.....	
Pay 1899 bonds.....	
Total.....	2,900 00
Surplus.....	\$ 852 48

No levy.

TABLE No. 136—Concluded.

Sewer District No. 21.**BROOKLYN SEWER DISTRICT.**

Established by ordinance No. 11813, passed June 22, 1896.

Valuation, 1898, \$263,420.00.

Sewer district bonds outstanding December 31, 1898, \$17,000.00.

Plans not yet perfected for main sewers.

Estimate for 1898 tax levy, made June 1, 1898:

Cash on hand.....	\$ 1,992 84
Receive from 1897 tax.....	400 00
Total.....	\$ 2,392 84
Pay 1898 repairs.....	\$ 500 00
Pay 1898 interest.....	140 00
Pay 1898 bonds.....	
Pay 1899 repairs.....	500 00
Pay 1899 interest.....	280 00
Pay 1899 bonds.....	
Walworth sewer.....	6,400 00
Total.....	7,820 00
Deficiency.....	\$ 5,427 16
Issue bonds.....	5,000 00
	\$ 427 16

Levy, 3 mills.

Commercial Street Main Sewer District.

Established by ordinance passed August 24, 1875.

Main Sewer.

COMMERCIAL STREET, from Hill to Canal to Stone's Levee to Cuyahoga River.

No sewer district bonds outstanding December 31, 1898.

Valuation, 1898, \$419,520.00.

Estimate for 1898 tax levy, made June 1, 1898:

Cash on hand.....	\$ 452 63
Receive from 1897 tax.....	200 00
Total.....	\$ 652 63
Pay 1898 repairs.....	\$ 300 00
Pay 1898 interest.....	
Pay 1898 bonds.....	
Pay 1899 repairs.....	500 00
Pay 1899 interest.....	
Pay 1899 bonds.....	
Hill sewer.....	1,300 00
Total.....	2,100 00
Deficiency.....	\$ 1,447 37

Levy, 3 mills.

PART VII

COMPARATIVE TABLES.

TABLE NO. 137.

COMPARISON OF THE RECEIPTS AND DISBURSEMENTS OF THE
CITY OF CLEVELAND FOR THE FOLLOWING YEARS:

	1894	1895	1896	1897	1898	1899
RECEIPTS.						
General tax	\$ 1,773,026 45	\$ 1,810,253 03	\$ 1,822,163 96	\$ 1,902,347 75	\$ 1,881,077 96	.....
Liquor tax	357,754 84	348,128 73	383,095 16	407,843 73	403,984 64	.....
Cigarette tax .....	.....	3,595 62	2,175 77	2,363 97	2,510 27	.....
Sewer District tax	190,210 68	148,355 25	126,890 50	158,514 00	197,712 06	.....
Special Assessments	668,786 26	686,294 64	547,912 95	464,418 35	569,923 01	.....
Licenses and Franchises	76,734 98	82,503 60	97,017 22	90,132 97	85,560 53	.....
Rents	50,924 52	52,833 64	47,191 97	50,217 90	47,146 81	.....
Fees	632,371 35	697,473 64	712,227 26	740,134 06	750,828 23	.....
Interest	353,911 66	209,922 81	242,700 09	365,280 10	600,730 17	.....
Sales	118,430 60	122,064 31	140,440 87	94,831 29	106,237 32	.....
Investments	57,541 79	81,733 54	35,536 98	28,033 70	34,968 98	.....
Donations	163,831 45	.....	257,230 40	81,039 72	500 00	.....
Sale of Assets	14,871 14	.....	.....	11,078 00	15,000 00	.....
Sale of Bonds	1,239,023 72	464,000 00	1,076,000 00	2,482,000 00	2,030,000 00	.....
Sale of Notes	315,535 00	423,560 00	226,500 00	319,860 00	536,490 00	.....
Deposits	7,218 70	3,130 04	7,400 41	5,951 00	518 00	.....
Total Receipts.....	\$ 6,070,173 14	\$ 5,143,848 85	\$ 5,724,483 54	\$ 7,203,256 54	\$ 7,563,190 00	.....
DISBURSEMENTS.						
Fixed charges and salaries	\$ 1,684,466 21	\$ 1,751,490 41	\$ 1,759,568 99	\$ 1,854,044 80	\$ 1,857,069 89	.....
Maintenance	789,776 91	821,880 26	855,843 29	843,848 29	833,370 76	.....
Office furniture	3,736 31	4,076 72	2,920 15	2,096 78	1,896 13	.....
Institution furniture	14,868 70	6,165 10	7,552 31	10,463 19	3,892 64	.....
Machinery & Implem'ts	145,789 93	51,113 66	79,027 59	68,962 35	76,326 44	.....
Investments	81,154 35	83,124 26	21,012 82	35,766 63	34,284 59	.....
Land	480,311 71	200,726 31	109,735 31	130,304 48	59,595 49	.....
Buildings	180,726 25	40,341 20	25,596 13	157,305 87	139,702 18	.....
Public ornaments	1,234 68	2,152 93	174,698 37	542,003 58	120,263 93	.....
Public highways	1,032,246 34	991,519 41	820,290 71	839,624 56	712,421 31	.....
Sewer and Water System	559,792 63	451,953 75	527,181 30	907,786 07	1,086,067 17	.....
To redeem bonds	855,972 66	1,266,628 66	1,081,098 66	1,189,233 66	1,036,070 00	.....
To redeem notes	134,744 00	165,077 00	274,839 00	287,361 00	363,102 00	.....
To return deposits	16,501 55	8,590 51	3,528 50	8,417 00	4,307 67	.....
Total Disbursements.	\$ 5,126,374 68	\$ 4,725,656 72	\$ 4,073,074 96	\$ 6,877,217 26	\$ 6,628,360 20	.....

TABLE NO. 138.

COMPARISON OF ASSETS AND LIABILITIES OF THE CITY OF
CLEVELAND ON DEC. 31, FOR THE FOLLOWING YEARS:

	1894	1895	1896	1897	1898	1899
ASSETS.						
Cash in Treasury	\$ 1,843,102 54	\$ 1,205,276 50	\$ 1,810,102 93	\$ 1,988,126 37	\$ 2,836,424 88	.....
Cash in hands of Skg F'd C's	2,195,166 37	2,132,001 08	2,008,805 06	2,156,820 90	2,243,352 19	.....
Office furniture	52,669 34	56,746 06	59,666 21	61,761 99	63,658 12	.....
Institution furniture	111,408 05	117,573 15	130,476 34	140,939 53	140,315 17	.....
Machinery and Implem'ts	880,941 63	932,055 29	1,011,082 88	1,080,045 23	1,156,371 67	.....
Investments	64,563 59	70,275 66	53,958 86	61,691 79	61,006 40	.....
Land, B'dings & Imp'm'ts	8,112,138 13	8,355,358 57	8,621,588 57	9,363,560 34	9,952,732 92	.....
Public highways	10,595,700 68	11,587,220 09	11,956,536 67	12,868,308 84	13,615,636 16	.....
Sewer and Water Systems	10,015,848 72	10,467,802 47	10,994,963 77	11,907,266 39	12,993,333 56	.....
Total Assets.....	\$ 33,850,264 35	\$ 34,924,308 87	\$ 36,647,181 29	\$ 39,628,521 38	\$ 43,062,831 08	.....
LIABILITIES.						
Bonds outstanding	\$ 9,821,460 98	\$ 9,018,832 32	\$ 9,013,733 66	\$ 10,306,500 00	\$ 11,800,430 00	.....
Notes outstanding	419,249 00	677,732 00	629,393 00	661,992 00	1,135,380 00	.....
Deposits outstanding	25,495 34	20,034 87	23,906 78	26,450 78	22,661 11	.....
Total Liabilities.....	\$ 10,266,205 32	\$ 9,716,599 19	\$ 9,667,033 44	\$ 10,994,942 78	\$ 12,458,471 11	.....
Excess of Assets.....	\$ 23,584,059 03	\$ 25,207,709 68	\$ 26,980,147 85	\$ 28,633,578 60	\$ 30,604,359 97	.....

TABLE No. 139.
COMPARISON OF THE OPERATING EXPENSES OF THE CITY GENERAL FUNDS FOR THE
FOLLOWING YEARS.

[illegible]

TABLE No. 139—Concluded.

COMPARISON OF THE OPERATING EXPENSES OF THE CITY GENERAL FUNDS FOR THE FOLLOWING YEARS.

Year.	House of Cor- rection Fund.	Infirmary Fund.	Fire Fund.	Dredging Fund.	Interest Fund.	Lighting Fund.	Sewer Districts, Special Funds and Street Improvements.	Totals.	Population.
1890.....	\$ 113,134 31	\$ 38,887 11	\$ 128,426 60	\$ 25,627 67	\$ 402,092 50	\$ 90,885 22	\$ 72,759 71	\$1,283,640 99	160,141
1891.....	79,062 10	39,628 41	145,533 35	60,426 57	396,665 83	91,765 95	53,092 51	1,349,771 38	167,413
1892.....	86,982 28	39,790 93	154,696 94	31,494 78	376,581 84	100,162 07	82,949 33	1,418,270 84	185,851
1893.....	104,395 52	47,011 10	164,625 66	36,675 28	381,521 47	108,010 50	72,818 72	1,481,616 90	194,684
1894.....	85,696 32	54,725 14	179,467 51	33,544 67	398,193 50	109,927 17	67,607 77	1,530,618 80	200,429
1895.....	127,416 33	55,112 67	201,414 64	26,028 69	413,281 41	111,706 73	95,767 84	1,650,695 73	205,446
1896.....	110,393 89	55,447 61	191,577 00	21,195 61	429,540 00	123,618 81	99,947 26	1,626,201 19	214,013
1897.....	121,259 37	79,796 18	217,067 45	15,710 17	444,410 22	126,738 39	85,406 56	1,888,981 37	238,916
1898.....	119,116 53	90,643 11	233,493 64	23,724 99	467,060 00	159,779 67	69,522 19	1,926,462 57	254,266
1899.....	185,731 49	78,715 38	253,283 89	33,543 97	451,572 60	164,574 66	89,513 84	2,111,443 14	281,353
1900.....	123,780 91	88,270 72	257,595 59	26,627 64	461,016 85	156,018 49	53,907 24	2,183,605 19	291,353
1891.....	102,300 95	102,061 12	276,186 61	16,178 65	436,084 22	121,585 74	60,675 54	2,185,554 69	274,000
1892.....	146,332 02	96,018 85	298,562 17	25,167 63	329,243 82	241,181 63	107,207 88	2,487,990 68	300,000
1893.....	111,163 07	128,133 58	346,403 86	24,758 12	330,637 00	199,723 45	138,728 45	2,541,684 26	326,000
1894.....	42,646 46†	137,997 49	376,604 85*	17,902 78	98,620 00*	200,257 18	139,911 72	2,474,243 12	342,000
1895.....	46,584 12†	127,615 68	415,673 39*	23,757 14	91,170 00*	229,288 79	153,707 20	2,573,370 67	351,000
1896.....	46,960 89	117,647 82	432,272 43	39,463 35	84,715 00	235,293 00	153,707 20	2,615,412 28	398,000
1897.....	43,413 17	182,909 71	436,488 82	25,150 47	112,535 00	235,225 68	129,327 64	2,697,993 09	390,000
1898.....	38,861 88	116,942 47	446,916 18	25,871 46	113,292 27	210,431 77	144,985 41	2,690,430 65	400,000

* NOTE.—The interest paid on Bridge, Fire and Police Bonds was charged to Interest Fund up to and including 1893; thereafter it was charged to the respective funds from which such payment was made.

† NOTE.—The "Expenses" reported for House of Correction included payments for material for manufacturing purposes up to and including 1893; thereafter such purchases were charged to "Investments."

NOTE.—Population, 1890-1890, Federal Census; 1891 to 1899 inclusive, Police Census; 1891 to 1898 inclusive, Directory Estimate.

TABLE No. 140.—Concluded.

COMPARISON OF THE INCOMES OTHER THAN TAXES OF THE CITY GENERAL FUNDS
FOR THE FOLLOWING YEARS.

(Including Earnings, Licenses, Sales and Investments.)

[illegible]

DEPARTMENT OF ACCOUNTS.

TABLE No. 141.
COMPARISON OF TAX DUPLICATE VALUATIONS AND LEVIES THEREON FOR THE
FOLLOWING YEARS.

Year.	Real Estate Valuation.	Personal Valuation.	Total Valuation.	State Levy per \$1000.	County Levy per \$1000.	School and Library Levy per \$1000.	Park Board Levy per \$1000.	City Levy per \$1000.	Total Levy per \$1000.
1880.....	\$ 53,165,295 00	\$ 20,481,899 00	\$ 73,647,194 00	\$2 90	\$2 90	\$4 75	\$ 35	\$15 40	\$26 30
1881.....	59,152,445 00	20,433,711 00	79,586,156 00	2 90	2 90	4 75	40	13 65	24 60
1882.....	60,815,745 00	21,683,334 00	82,600,079 00	2 90	3 00	4 75	35	13 80	24 80
1883.....	62,812,155 00	21,667,875 00	84,480,060 00	2 90	2 90	6 25	50	15 25	27 80
1884.....	64,117,055 00	21,840,950 00	85,978,005 00	2 80	2 30	6 20	50	13 70	25 50
1885.....	65,436,025 00	22,849,820 00	88,285,845 00	2 90	2 50	6 25	35	14 00	26 00
1886.....	66,600,175 00	24,475,231 00	91,074,406 00	2 90	2 50	6 25	25	12 90	24 80
1887.....	67,926,390 00	25,702,030 00	93,628,410 00	2 90	2 80	6 45	25	15 90	26 30
1888.....	69,136,345 00	26,786,240 00	95,922,585 00	2 90	2 80	6 45	20	15 95	26 30
1889.....	70,730,395 00	26,879,115 00	97,609,510 00	2 70	3 30	6 45	27 5	15 125*	27 90
1890.....	72,734,940 00	28,320,505 00	101,055,445 00	2 45	3 45	6 35	25	15 20*	26 30
1891.....	89,512,700 00	29,498,065 00	117,832,205 00	2 75	3 85	6 95	25	13 15	27 50
1892.....	91,782,150 00	31,007,770 00	122,789,920 00	2 75	3 95	7 55	65	13 00	27 90
1893.....	95,506,220 00	31,748,105 00	127,254,325 00	2 75	4 05	7 65	75	12 90*	28 10
1894.....	100,391,800 00	31,338,795 00	131,730,595 00	2 75	4 15	7 90	77	12 95*	28 50
1895.....	103,225,110 00	33,384,065 00	136,609,175 00	2 84	4 26	8 50	1 00	12 70*	29 20
1896.....	105,089,320 00	35,161,810 00	140,251,130 00	2 84	4 26	8 60	1 00	12 60	29 30
1897.....	106,753,620 00	37,358,495 00	144,112,115 00	2 84	4 26	8 85	1 10	12 50	29 55
1898.....	104,932,280 00		142,290,775 00	2 84	4 26				
1899.....									
1900.....									

* City levy reduced \$0.05 by County Auditor.

TABLE No. 142.

COMPARISON ON CITY LEVIES PER \$1000 ON THE DUPLICATE VALUATION FOR THE CITY GENERAL FUNDS, INCLUDING PARK BOARD LEVY, FOR THE FOLLOWING YEARS.

Year.	(General Fund.)	Bridge Fund.	Street Fund.	(Incl. Crosswalk.)	Park Fund (Incl. Ind.)	Police Fund.	Sanitary Fund.	(Incl. Hospital.)	House of Correction Fund.	Infirmity Fund.	Fire Fund.	Lighting Fund.	Interest Fund.	Street Fund.	Paving Fund.	General Sinking Fund.	Viaeduct Sinking Fund.	Total Levy.
1880.....	\$ 35	\$0 25	\$0 85	\$0 75	\$0 40	\$1 70	\$0 25	\$.....	\$.....	\$0 20	\$2 00	\$0 45	\$5 30	\$0 15	\$.....	\$1 55	\$0 05	\$15 75
1881.....	1 11	20 20	75 90	85 90	35 35	85 85	15 25	.....	20 20	35 35	1 95	40 30	4 60	.....	25 25	1 40	05 05	14 05
1882.....	1 35	20 20	90 90	85 85	35 35	85 85	25 25	.....	.....	.....	2 20	20 20	4 60	10 10	.....	20 20	25 25	14 15
1883.....	1 20	20 20	95 95	85 85	35 35	85 85	20 20	.....	.....	40 40	2 20	15 15	4 75	25 25	.....	1 85	25 25	15 75
1884.....	75 75	30 30	95 95	85 85	50 50	85 85	20 20	.....	15 15	.....	2 30	20 20	4 85	15 15	.....	1 20	20 20	14 20
1885.....	85 85	15 15	70 70	75 75	35 35	2 00	25 25	.....	15 15	.....	2 37 1/2	10 10	4 85	30 30	.....	1 15	10 10	14 35
1886.....	25 25	10 10	87 1/2 87 1/2	75 75	25 25	1 05	32 1/2 32 1/2	.....	.....	.....	.....	10 10	4 85	15 15	.....	2 15	25 25	13 15
1887.....	45 45	25 25	1 00	75 75	20 20	1 75	30 30	.....	15 15	.....	2 45	10 10	4 77 1/2	30 30	.....	2 50	50 50	16 15
1888.....	55 55	40 40	1 05	87 1/2 87 1/2	25 25	2 00	30 30	.....	15 15	10 10	2 45	05 05	4 00	75 1/2 75 1/2	.....	2 40	15 15	16 15
1889.....	60 60	50 50	1 05	80 80	25 25	2 00	35 35	.....	.....	.....	2 45	05 05	3 15	.....	1 00	.....	.....	15 50*
1890.....	60 60	50 50	1 05	80 80	25 25	2 00	35 35	.....	10 10	05 05	2 45	05 05	3 15	50 50	1 00	.....	05 05	15 50*
1891.....	1 05	30 30	80 80	75 75	30 30	2 85	27 1/2 27 1/2	.....	.....	.....	2 85	10 10	2 45	35 35	1 00	1 80	50 50	13 45
1892.....	1 11	30 30	80 80	75 75	30 30	2 85	27 1/2 27 1/2	.....	10 10	.....	2 85	10 10	2 45	35 35	1 00	1 80	50 50	13 45
1893.....	30 30	27 1/2 27 1/2	80 80	75 75	30 30	2 85	27 1/2 27 1/2	.....	08 08	.....	2 85	10 10	2 45	35 35	70 70	1 00	05 05	13 70*
1894.....	75 75	19 19	83 83	77 77	30 30	64 64	27 27	.....	14 14	.....	3 17 3 17	10 10	2 45	35 35	70 70	1 00	05 05	13 70*
1895.....	84 84	32 32	76 76	62 62	1 00	58 58	27 27	.....	.....	.....	3 26 3 26	10 10	2 45	35 35	40 40	85 85	1 05	13 60
1896.....	87 87	33 33	89 89	78 78	1 10	58 58	28 28	.....	.....	.....	3 30 3 30	10 10	2 45	35 35	50 50	40 40	1 40	13 60
1897.....	87 87	33 33	89 89	78 78	1 10	58 58	28 28	.....	.....	.....	3 30 3 30	10 10	2 45	35 35	50 50	40 40	1 40	13 60
1898.....	87 87	33 33	89 89	78 78	1 10	58 58	28 28	.....	.....	.....	3 30 3 30	10 10	2 45	35 35	50 50	40 40	1 40	13 60
1899.....	87 87	33 33	89 89	78 78	1 10	58 58	28 28	.....	.....	.....	3 30 3 30	10 10	2 45	35 35	50 50	40 40	1 40	13 60
1900.....	87 87	33 33	89 89	78 78	1 10	58 58	28 28	.....	.....	.....	3 30 3 30	10 10	2 45	35 35	50 50	40 40	1 40	13 60

* Total levy reduced \$0.05 by County Auditor.

TABLE No. 144.

COMPARISON OF THE CITY DEBT ON DECEMBER 31 FOR THE FOLLOWING YEARS.

[illegible]

TABLE NO. 146.

RESULTS IN 1898 BY COMPARISON WITH 1897.

Increase of assets (table No. 138)	\$ 3,434,309 70
Increase of liabilities (table No. 138).....	1,468,528 33
Net gain (table No. 138).....	\$ 1,970,781 37
Increase of population, estimated (table No. 139).....	20,000
Decrease of operating expenses (table No. 139)	\$ 7,452 44
Increase of income other than taxes (table No. 140).....	261,766 02
Increase of duplicate valuation (table No. 141).....	375,345 00
Decrease of city levy per \$1,000 on above valuation (table No. 142).....	10
Increase of cash balance January 1st (table No. 145).....	848,298 51
Increase of values of sinking funds (table No. 145).....	86,531 29
Decrease of annual interest paid (table No. 145).....	13,538 16

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TABLE No. 147.

BUSINESS SINCE 1880.

[illegible]

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DEPARTMENT

OF

PUBLIC WORKS.

CITY OF CLEVELAND, OHIO,

Department of Public Works.

GEORGE R. WARDEN, Director.

W. P. CHARD, Deputy Director.

FIRST SUB-DIVISION:

M. W. KINGSLEY, Supt. of Water Works.

SECOND SUB-DIVISION:

J. P. MURRAY, Supt. of Streets.

THIRD SUB-DIVISION:

M. E. RAWSON, Chief Engineer.

Report of the Director of Public Works.

OFFICE OF THE DEPARTMENT OF PUBLIC WORKS, }
CLEVELAND, OHIO, January, 1899. }

*To the Honorable Mayor and City Council of the City of
Cleveland:*

GENTLEMEN:—I herewith submit to you the annual report of the Department of Public Works for the year ending December 31, 1898.

The work in Division No. 1, the Water Works Department, including the ordinary extensions of the department which have been of the usual magnitude, and also the very large amount accomplished on the New Water Works Tunnel—which when completed will give to the city a better and purer water supply—has progressed in a very satisfactory manner.

Twelve thousand seven hundred feet of tunnel have been built, nearly half of the proposed length. Of this amount 7,877 feet were completed during the year 1898.

The new Allis Pumping Engine has been completed and has been in use for the last three months. The wisdom of this purchase has been demonstrated to a very marked degree, for the average cost of coal for pumping 1,000,000 gallons of water has been reduced from \$2.22 under the old system to \$1.03 under the new Allis Pump.

Nineteen miles 1,305 feet of water pipe have been laid during the year. Deducting from this 3 miles 3,126 feet taken out and abandoned during the year, leaves a net gain of 15 miles 3,459 feet. Nearly all of the pipe taken up and replaced by larger pipe was done previous to the paving and re-paving of streets in which they were laid, so that it would

not be necessary to do so in the future to take care of the water supply.

Territory on the west side of the river in the vicinity of Dennison avenue has been furnished with water from the High Service Reservoir. Considerable trouble was experienced owing to the breaking of the second-hand pipe purchased and laid by the former administration, the weakness of the pipe not being discovered until the water was turned on in 1898.

The net receipts of the water collections for 1898 were \$642,019.80, a gain of \$18,835.58 over the year 1897. There were pumped 18,921,532,816 gallons of water during the year—an average of 51,839,816 gallons per day—this being an increase of 7.15 per cent. more than the previous year.

The average daily consumption of water from the Fairmount street high service station was 3,229,260 gallons, an increase of 18.49 per cent. more than the preceding year.

The question of electrolysis has become one of very great import to our city. While the electric illuminating, telephone and telegraph companies are making very strenuous efforts to protect the life and property of the citizens by surrounding them by every possible safeguard, the street railways do not seem to make any effort to prevent the destruction of water pipe and sewer connections with the homes of the citizens. More and more difficulty is experienced each year with lead and iron pipe and sewer and water connections from electrolysis. Legislation should be immediately commenced to compel proper precautions to prevent this destruction and the same should be vigorously enforced.

The Street Division cleaned and rounded up 853.6 miles and laid and relaid 49,454.3 feet of crosswalk, and cleaned 3,260.9 miles of pavement during the year at an average cost of \$18.58—the lowest cost per mile in the city's history.

Division No. 3, including Engineers, Pavements, Sewers, Docks and Dredging, Bridges, etc., has performed an unusual amount of work during the year—nearly double the amount of any previous year. Sixty streets were paved or re-paved during the year, a total of 17.2 miles, at a marked reduction in cost. Legislation has been completed and all other neces-

sary work performed for the paving of 96 streets for the year 1899. Sixteen streets have also been graded and curbed during the past year.

Work on the large Intercepting and Walworth Run Sewers has rapidly progressed, and Section No. 1 of the Walworth Run Sewer has been completed and Section No. 2 is very nearly so. Work on a large number of trunk sewers and main sewers, to relieve districts where it is impossible to get the benefit of a sewer owing to the insufficient outlets in connecting streets, has been pushed rapidly forward, and many of them completed during the year.

Plans have been perfected and the preliminary work completed for the building of 105 sewers during the year 1899. Negotiations have been completed with the village of Collinwood for right of way for the intercepting sewer, and also with the L. S. & M. S. Ry. Co., for nearly one mile through the village of Glenville. Plans are practically completed for the large Doan street main sewer.

Plans have been prepared and the contract let for the building of docks and piers on the lake front between Erie and Seneca streets. Work has been started on the substructure and embankment of the Willett street Viaduct, and also for the Martin-Praha street Bridge over the Erie R. R. tracks. Work has been started for the rebuilding of the Center street Bridge and the removal of the center pier in compliance with the plans to remove all obstructions from the river, giving clear passage to lake commerce.

The arch culvert over Mill Creek known as the Warner Road Improvement is nearly completed.

During the year a change in the lighting in the vapor light districts from ordinary to Welsbach incandescent lamps has greatly improved the lighting in those districts.

Eighteen miles 4,905 feet of conduits and subways have been constructed during the past year.

It is impossible to mention in detail such a vast amount of public work all of which is worthy of some special mention, and a knowledge of which can only be obtained by carefully examining the detailed reports and appended tables of the chiefs of the various divisions of this department attached hereto.

In conclusion, I desire to express my appreciation and than s to Deputy Director Wm. P. Chard and the superintendents and chiefs of the different divisions and all others who have so ably assisted in the conduct of the department for the past year.

Respectfully submitted,

GEO. R. WARDEN,

Director of Public Works.

DEPARTMENT OF PUBLIC WORKS.

First Subdivision—Water Works.

REPORT OF SUPERINTENDENT.

Forty-Third Annual Report Upon the Condition of the Water Works;

BEING THE EIGHTH ANNUAL REPORT OF THE FIRST
DIVISION OF THE DEPARTMENT OF
PUBLIC WORKS.

HON. GEO. R. WARDEN,
Director of Public Works:

DEAR SIR:—The following report and tabulated statements are herewith submitted, showing the receipts and disbursements as they appear on the voucher register, and also tables showing service connections made, water meters set, pipe laid, valves and hydrants set, amount of water pumped by each engine, etc.

RECEIPTS

For the year ending December 31st, 1898.

For water from assessments.....	\$409,823 22	
" " " meter measure.....	236,675 96	
" " " miscellaneous sources	5,851 44	\$652,350 62
For 2270 connections to main pipe at \$5.00 each.....	11,350 00	
For extra curb cocks, boxes, etc.....	1,521 20	12,871 20
From persons for laying water pipe.....		518 00
On account of pipe extension.....	3,326 21	
" " water meters	234 28	
" " general expense.....	1,498 08	
" " high service reservoir.....	10 00	5,068 57
For postage, fines, etc.....		162 30
For water works bonds.....	300,000 00	
For interest and premiums on water works bonds.....	46,975 45	346,975 45
Cash in City Treasury, January 1st, 1898.....	152,308 17	
Cash in office January 1st, 1898.....	1,690 69	153,998 86
Total.....		\$1,171,945 00

WATER WORKS.

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DISBURSEMENTS

For the year ending December 31st, 1898.

On account of pipe extension.....	\$207,265 35	
" " miscellaneous construction.....	17,934 22	
" " new boiler and engine house.....	4,843 14	
" " new East End cribs.....	23,268 53	
" " Coe St. dock.....	13,813 78	\$267,125 02
On account of water meters.....		14,341 59
For corporation stops, boxes, and tapping water mains.....		12,201 70
On account of general expense.....	66,650 19	
" " " repairs.....	11,538 35	
" " West Side pumping house expense.....	98,116 92	
" " " " " repairs.....	9,018 73	
" " High Service reservoir expense.....	1,363 04	
" " Fairmount " " 	1,703 20	
" " " pumping house " 	9,596 50	
" " " " " repairs.....	394 38	\$198,381 31
On account of crib expense (old).....		1,180 39
" " new East Side tunnel.....		138,707 80
" " " Allis engine.....		21,879 00
" " " river tunnel No. 2.....		5,512 19
" " " boilers and stokers.....		16,069 00
" " permanent crib.....		52,035 41
Paid sundry creditors.....		4,307 67
Paid interest on water works bonds.....		96,870 00
On account returned water rents by voucher.....		10,330 82
Cash in City Treasury January 1st, 1899.....	331,312 95	
Cash in office January 1st, 1899.....	1,690 15	333,003 10
Total.....		\$1,171,945 00

RECAPITULATION OF VOUCHER REGISTER ACCOUNTS PAYABLE

For the year ending December 31st, 1898.

Pipe extension.....	\$207,265 35
General repairs.....	11,538 35
Superintendent's department expense.....	51,555 49
General contingent expense.....	15,094 70
Old River street pumping station expense.....	98,116 92
" " " " " repairs.....	9,018 73
Fairmount " " " " expense.....	9,596 50
" " " " repairs	394 38
" reservoir repairs.....	1,703 20
High Service " "	1,363 04
Water meter accounts	14,341 59
Ferrule and tapping account.....	12,201 70
Sundry creditors' account.....	4,307 67
Water rent's returned.....	10,330 82
Interest account.....	96,870 00
Miscellaneous construction.....	17,934 22
Crib expense.....	1,180 39
New Allis engine.....	21,879 00
New East End tunnel.....	138,707 80
New River tunnel No. 2.....	5,512 19
New boiler and engine house.....	4,843 14
New cribs	23,268 53
Boilers and stokers.....	16,069 00
Permanent crib.....	52,035 41
Coe street dock.....	13,813 78
Total.....	\$638,941 90

WATER WORKS.

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As shown in the foregoing for the year ending December 31st, 1898.

The receipts for water were.....	\$642,019 80
The expense of operating the department after deducting credits to the various accounts was.....	197,221 82
Leaving a surplus (available for the enlargement of the works and the payment of interest) of.....	\$444,797 98

LEDGER BALANCE, DECEMBER 31st, 1898.

Cash.....	\$1,690 15	Water rents.....	\$6,948,258 80
City treasurer.....	331,312 95	Bonds outstanding.....	2,387,000 00
Interest.....	971,063 66	Bonds redeemed.....	925,000 00
Construction.....	8,396,480 41	Sundry creditors.....	17,661 11
City of Cleveland.....	36,781 87		
Water meters.....	182,073 57		
New East End tunnel.....	242,494 65		
Allis engine.....	32,818 50		
River tunnel No. 2	15,099 74		
Permanent crib.....	52,035 41		
New boilers and stokers.....	16,069 00		
Total.....	\$10,277,919 91	Total.....	\$10,277,919 91

THE REVENUE FROM WATER RENTS,

The operating expense and repairs, and the balance to the credit of water rent after deducting such expense from the introduction of lake water into the city until the present time, is shown by the following table:

Years.	Gross Receipts.	Operating Expenses.	Repairs.	Net Earnings.
1856 to 1876	\$1,127,788 02	\$426,564 16	\$98,656 37	\$602,567 49
1877	152,794 68	50,571 46	20,673 36	81,549 86
1878	160,125 70	47,183 44	22,453 91	90,488 35
1879	182,173 33	44,616 59	11,182 61	126,374 13
1880	202,377 92	47,618 76	8,296 13	146,463 03
1881	223,981 71	56,430 19	8,586 07	168,965 45
1882	248,879 06	57,857 47	7,835 56	183,186 03
1883	274,614 15	61,617 58	11,593 24	201,403 33
1884	296,392 60	66,196 41	9,470 48	220,725 71
1885	317,661 06	65,150 73	55,498 35	197,011 98
1886	353,191 85	77,582 32	8,034 44	267,575 09
1887	392,376 49	82,354 76	7,561 35	302,460 38
1888	401,775 40	85,445 92	20,950 10	295,379 38
1889	448,497 62	89,831 40	11,546 56	347,119 66
1890	502,954 11	97,630 45	10,716 26	394,607 40
1891	544,948 19	112,839 37	12,234 39	419,874 43
1892	597,002 45	116,484 01	15,935 02	464,583 42
1893	547,053 04	133,181 89	20,110 15	393,761 00
1894	536,639 35	137,607 41	32,401 75	366,630 19
1895	575,843 78	145,765 59	24,465 15	405,613 04
1896	604,274 00	174,458 72	43,172 81	386,642 47
1897	623,173 22	160,268 84	22,425 38	440,479 00
1898	642,019 80	176,270 36	20,951 46	444,797 98
Totals.....	\$9,966,537 53	\$2,513,527 83	\$504,750 90	\$6,948,258 80

FOR THE YEAR ENDING DECEMBER 31, 1898.

The following is a statement of receipts in detail from persons for work performed and material furnished, and from other sources, not including water rents as entered in voucher register of accounts receivable.

From Whom.	For What.	Amount.
L. J. Judd.....	Testing meters.....	\$ 5 00
L. J. Judd.....	Sprinkling T's.....	13 20
L. J. Judd.....	Connecting 4-inch meter.....	2 19
Dewstoe & Schneider.....	4-inch connection, Stone's levee.....	70 90
Seofield, Sharmer & T.....	3-inch connection, Willson avenue.....	78 13
Northern Ohio Pav. & Con. Co.....	Valves and hydrants.....	250 45
Northern Ohio Pav. & Con. Co.....	Corp. cocks.....	81 25
F. Buettner.....	Setting private meter.....	11 93
Grant Ball Co.....	Setting private meter.....	13 10
F. A. Wadsworth.....	Two 2-inch branches, Farnham alley.....	56 38
M. Hayman.....	327 pounds lead dross @ 1.55.....	5 07
H. Silberman & Co.....	64.482 tons scrap @ \$6.50.....	419 54
Pickands-Mather Co.....	Lease of dock, Dec. 1, 1897, to Dec. 1, 1898..	600 00
Cleveland City R. R. Co.....	Use of river tunnel, Aug. 1, '97, to Aug. 1, '98	100 00
Cleveland Telephone Co.....	Use of river tunnel, Nov. 1, '97, to Nov. 1, '98	200 00
Price & Stewart Building.....	Brick meter vault.....	13 86
C. Stuhlinger.....	Setting private meter.....	4 72
Bolton Ave. Presb. Church.....	Setting private meter.....	17 01
Cleveland Hardware Co.....	4-inch connection, Lake street.....	60 12
Chas. Nickel.....	Filling ice pond, Rhodes avenue.....	38 16
Thomas Bowen.....	Re-setting private meter.....	2 98
Chafer & Becker.....	One 4-inch valve.....	6 75
Cleveland Telephone Co.....	Digging two holes.....	19 30
Upson Nut Co.....	Repairing 4-inch pipe.....	30 62
Consolidated Steel & Iron Co.....	Extending 4-inch fire pipe.....	72 04
Crescent Sheet & Tin Plate Co.....	4-inch connection.....	37 55
General Fire Extinguisher Co.....	4-inch connection, Alum street.....	72 39
J. W. Nixon.....	4-inch connection, Seneca street.....	89 90
L. S. & M. S. Ry.....	4-inch connection, Davenport street.....	38 72
Park Commissioners.....	Two 3-inch connections, Superior street.....	107 91
General Fire Extinguisher Co.....	4-inch connection, Willey street.....	82 46

From Whom.	For What.	Amount.
J. V. N. Yates.....	Moving five hydrant, Lime street.....	\$ 19 63
James Bropton.....	Setting private meter.....	2 08
Glenville Village.....	Two 4-inch fire hydrants @ \$26.00	52 00
R. E. Green	Testing meter	50
The Home Telephone Co.....	Use of river tunnel, May 2, '98, to May 2, '99.....	200 00
Western Union Telegraph Co.....	Use of river tunnel, May 2, '98, to May 2, '99.....	200 00
D. B. Fish.....	Hydrants and valves	83 00
Theodore Kundtz	6-inch & 8-inch conn., Elm, Center, Winslow.....	1,171 28
C. Fink.....	Setting private meter.....	13 51
G. C. Bacon	Setting private meter.....	3 46
B. M. Hallock.....	Setting private meter	2 08
A. E. Skeel.....	Setting private meter.....	3 22
A. H. Wade	Hay from Kinsman reservoir.....	10 00
D. R. Hawley	Stop cock box.....	4 50
W. S. Doan, Mgr.....	Stop cock box.....	1 50
Keiper & Gould	Setting private meter.....	13 86
L. Poplowaki	Setting private meter.....	3 45
C. F. Kuents	Watching pipe, Russell avenue.....	1 98
United German Church.....	Setting private meter.....	23 97
S. T. Wellman.....	Setting private meter.....	3 29
H. T. Groene	Setting private meter	11 71
C. H. Krause	Repairing private meter.....	2 00
Cleveland, Canton & Southern R.R.	Stop cock box, Lane street	1 50
United Salt Co.....	Water from hydrant.....	1 70
L. H. Fahey	Grate for furnace.....	84
C. F. Kuents	Watching pipe, Pleasant street.....	13 00
J. T. Morris	Setting private meter.....	3 04
W. J. Adams.....	Setting private meter.....	2 98
Geo. A. Klink	Setting private meter.....	2 47
B. H. Hallock.....	Setting private meter.....	2 47
W. H. Cleveland	4-inch connection, Aetna street.....	78 11
A. H. Rudolph	Testing meter.....	50
Gus Wagner	Old pipe.....	90
Grant Ball Co	2-inch connection, Clarkwood	67 04
John Goetz.....	4-inch connection, Pearl street	66 34
Cleveland Park Board.....	12-inch pipe.....	77 17
R. P. Burnett.....	Caulking two 24-inch joints.....	10 65

WATER WORKS.

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From Whom.	For What.	Amount.
Independent Ice Co	4-inch connection, Florence street.....	\$ 53 12
C. F. Kunts	4-inch connection, Pleasant street.....	12 45
Cleveland Frog & Crossing Co.....	One 4-inch hydrant (old style)	23 00
Greesley Bros.....	Repairing sprinkler, Euclid avenue.....	2 16
Upson Nut Co	Repairing 4-inch pipe, Big 4 Ry	6 33
Farmers & Drovers Stock Y'ds Co.	4-inch connection, Leyden street	70 11
Dr. E. F. Davis.....	Setting private meter, Madison avenue	14 40
E. W. Tyler	Setting private meter, Collins street.....	1 60
B. H. Hollock.....	Setting private meter, Bolivar street.....	13 55
E. W. Tyler	Setting private meter, Turney street.....	2 91
Schuring & Conterer	Setting private meter, First avenue	1 98
S. McElhaney	Setting private meter, Bissell street.....	13 34
B. H. Hollock	Setting private meter, Dunham avenue	2 12
J. D. Cleveland	6-inch water pipe, Burns street.....	518 00
M. Sacheroff	Old oil barrels.....	26 15
John Zehanger.....	3-inch connection, Park place	46 66
John Herr	Setting private meter.....	2 24
P. J. Mulligan	Changing meter.....	1 79
M. W. Kingsley	Setting private meter.....	14 97
H. Rensen.....	Old oil barrels	5 10
Chas. Chase	Red't vouchers	72 20
Total		\$ 5,661 57

SCHEDULE OF PROPERTY

Belonging to the Water Works Division, December 31, 1898.

West Side crib and two tunnels.....	\$ 835,500 00
River tunnel at St. Clair St.....	30,400 00
River tunnel at Clark Ave.....	9,000 00
River tunnel at Main St.....	16,000 00
River tunnel at Superior St.....	15,112 00
East Side tunnel (unfinished) and two temporary cribs.....	359,376 00
Permanent inlet crib (unfinished).....	52,035 00
Division Street Pumping Station grounds (5½ acres), with aqueducts, pavement, retaining walls, etc.....	84,000 00
Division Street Pumping Station, buildings.....	365,800 00
Division Street Pumping Station electric light plant, machine shop, etc.....	4,000 00
Division Street Pumping Station, seven pumping engines, 110 million gallons capacity, and boilers for same (Allis engine payment not completed).....	479,948 00
Fairmount Pumping Station and grounds (1¼ acres), one pair Cornish engines and boilers for same (8 million gallons), dwelling, pavement, etc.....	206,800 00
515 miles, 2,875 feet of water mains of all sizes, 5,923 hydrants and 10,966 valves.....	5,595,000 00
Water meters.....	153,000 00
Ridge Avenue Pumping Station grounds.....	4,100 00
Kirtland Street Pumping Station grounds and sea wall.....	49,800 00
Fairmount Reservoir and grounds (20 acres).....	401,100 00
Kinsman Street Reservoir and grounds (18 acres).....	142,700 00
Kinsman Street Reservoir, keeper's dwelling.....	1,100 00
Office furniture, engineering instruments, books, etc.....	7,000 00
Office store room, tools, pipe, specials, valves, hydrants, meters, etc.....	8,000 00
Division Street Pumping Station yard, coal, pipe, specials, tools, etc.....	5,000 00
Fairmount Pumping Station yard, coal, pipe, specials, tools, etc.....	4,000 00
Kinsman Reservoir yard, pipe, specials, etc.....	200 00
Ridge Avenue Pumping Station yard, pipe, specials, etc.....	1,500 00
Pelton Avenue yard, pipe, specials, etc.....	3,000 00
Total	\$ 8,833,471 00

LAKE CRIB—WEST SIDE TUNNELS.

No repairs of any moment have been made on this crib during the past year, but it is getting to be in a condition requiring extensive repairs at the earliest possible time.

An examination of this crib made during the year showed that the timbers of the middle wall, below the floor line, are considerably decayed and that the submerged band around the crib had become loose on the northwest side, all the blocking behind it having been washed away.

Our crib keeper also reported, last December, that the crib now seemed to shake more during heavy storms than formerly.

This crib was rebuilt from about three feet below the water line up in the year 1885, and the timbers below the floor line are becoming soft and decayed, this being especially noticeable in the tie heads, so that this part of the crib will have to be thoroughly overhauled and strengthened.

This work should be done this winter without fail, so as to be completed before the spring storms commence.

WEST SIDE LAKE TUNNELS.

These tunnels are in good condition, and the supply of water has been uninterrupted throughout the year.

SUPERIOR STREET TUNNEL.

This tunnel, with the exception of a few slight leaks in the brickwork, was completed ready for the 48-inch pipe on January 18, 1898. The 48-inch pipe in this tunnel was placed in position and the final test made and the pipe accepted August 15, 1898.

The tunnel contractor then completed the covering of the shafts. The final estimate has not been paid, owing to a few leaks which have not yet been stopped.

The connecting of the pipe in this tunnel with the mains in the streets will be made early this spring.

EAST SIDE LAKE TUNNEL AND CRIBS.

Both temporary cribs Nos. 1 and 2 are in the hands of the tunnel contractor, who is using them in carrying on the tunnel.

PERMANENT OR STEEL CRIB.

This crib was towed out to its proper location in the lake and successfully sunk on July 1, 1898. Filling and rip-rap stone were placed in and around the crib at once. Levels taken July 6th showed the crib to be out of level 0.51 of a foot, the westerly side being low.

In order to prevent, if possible, the crib settling further out of level the greater proportion of filling stone was placed on the high side and the greater proportion of rip-rap stone was placed around the crib on the low side, at first. The crib, however, continued to settle unevenly until it was 1.1 feet out of level.

On account of this uneven settling, and the crib not sinking into the bottom of the lake as much as was anticipated, the quantity of rip-rap stone was greatly increased over that first estimated, 8,108.8 tons being placed around the crib altogether. This seems to have effectually stopped further settling, the last three tests with the instrument showing no change in the level of the structure. The floor line of the crib was then made level by means of the eleventh course.

On December 31, 1898, the crib was about in the following condition: The crib is built up to the floor line and 13 of the 24 compartments are completely filled with stone; to fill the remaining 11 compartments will require about 1,000 tons. The girders spanning the well are all in place but the ends have not yet been riveted to the inner shell. The parapet is all in place and bolted together ready for riveting. The stairway at the landing has not been completed.

In order to protect the crib against the action of the ice a belt of Portland cement concrete, 4 feet wide and extending from 4 feet below to 4 feet above the water line, was placed around the crib just inside the outer shell.

In the four compartments at the landing this concrete was carried to 10 feet above the water line.

The contractor did not succeed in getting the remaining eleven compartments filled with stone before the lake became blocked with ice and all work has, on this account, been stopped for the present. It will probably require two months more of work to complete the crib entirely.

EAST SIDE TUNNEL.

The total number of feet completed on December 31, 1898, is as follows:

From Shaft No. 1 west	6,513 ft.
From Shaft No. 2 east	3,084 ft.
From Shaft No. 2 west	3,089 ft.
From Shaft No. 3 west	14 ft.

Total 12,700 ft.

The number of feet completed prior to 1898 was:

From Shaft No. 1 west	4,584 ft.
From Shaft No. 2 east	139 ft.
From Shaft No. 2 west	100 ft.

Total 4,823 ft.

Leaves a net gain for the year 1898 of 7,877 ft.

On May 11, 1898, a disastrous explosion occurred in the shore end of the tunnel, at the face of the work. The brickwork had been completed to 6,280 ft. from the shore shaft and the excavation was nearly completed for about 17 ft. beyond the masonry.

Eight men were badly burned but managed to make their way out of the tunnel, although they all subsequently died as a result of their injuries.

Work was resumed on June 8, 1898, and progressed until July 11, 1898, when another explosion occurred, instantly killing eleven men who were employed at the face of the work.

The tunnel had been completed to 6,541 feet and the masons were engaged in building another section of masonry about 16 feet 9 inches long, making a total distance to the face of the work of about 6,557 feet 9 inches.

On July 19th, a brick bulkhead 7 feet thick was built in this tunnel at 6,513 feet from the shaft, and no work has been done in this section since that time.

SHAFT NO. 3 AT CRIB NO. 2.

Work on this shaft was begun on January 14, 1898. On January 25, 1898, nine cylinders had been bolted together and sunk in position and the earth excavated to 18 inches below the bottom of the cylinders. The air lock at the top

of the shaft had been bolted on. Work was then stopped on account of the contractor not having his air compressors ready to put on pressure.

On February 20th, the air pressure (18 pounds) was put on and work was begun under pressure.

On February 21st, just after the masons had gone in to brick up under the cylinder, water began to come in, which gradually increased so that the men had to quit work. At 11 A. M., February 22nd, there were 14 feet of water in the shaft, although the pressure had been increased to 25 pounds.

On the 24th, the air pressure was taken off and the water in the shaft rose to the lake level.

The contractor then ordered two additional cylinders which were placed on top of the shaft and it was then forced down 18 feet farther.

On March 14th, a crack was discovered just below the top flange of the second cylinder from below; the crack is horizontal and about six feet long and some water is coming in through it.

On March 29th, another crack was reported in the third cast iron cylinder from below, just above the bottom flange.

Permission was given the contractor to place another cylinder on top of the shaft and force it down deeper for the purpose of shutting off the water, and the grade of the tunnel was lowered 8 feet so as to get into better ground for tunneling.

On July 28th, another crack was discovered in the sixth cylinder from below, not as bad as the others.

On September 1st, the shaft had been completed and 14 feet of tunnel built west from this shaft. Work on the tunnel was then suspended until the leaks in the shaft could be stopped.

The cracks in the shaft were calked with copper and the pressure was taken off so as to allow the earth outside to settle more compactly around it. Work has not been resumed at the end of the year, but the intention is to commence work just as soon as the ice now in the lake will permit the taking out of material and supplies.

DIVISION STREET PUMPING STATION.

The new engine and boiler houses in the south lot of this station have been completed and the 20,000,000 Allis triple expansion engine has been started and is now in service.

The duty trial has not been made, but this will be done shortly.

The retaining wall on the south and west sides of the south lot has been completed.

The grounds have been graded and all driveways paved with brick. The laying of the flagging has not been completed but will be finished early in the spring.

For a more detailed statement of the work done see the appended report of Mr. Botten, engineer in charge of this station.

FAIRMOUNT PUMPING STATION.

The tower and stand pipe at this station have been thoroughly painted. The west Cornish engine has been overhauled, especially in her main bearings. Some other minor repairs have also been made.

Six patches have been placed on the boilers and there are some other repairs now being done on the boilers to place them in a satisfactory condition.

FAIRMOUNT RESERVOIR.

This reservoir is in good condition and there have been no repairs of any kind necessary.

The south basin of this reservoir was cleaned, the work commencing on November 16th and being finished on November 28. On account of the cold weather setting in at that time we did not deem it advisable to then undertake the cleaning of the north basin, but will probably have to do this during the coming year.

KINSMAN RESERVOIR.

This reservoir is in good condition with the exception of some very small leaks in the north half of the east embankment. These leaks have been there for several years and have not increased and are being watched closely. So far they are of no consequence.

PIPE EXTENSION.

The total amount of pipe laid during the
 year was 19 miles 1,305 ft.
 Pipe taken out and abandoned during the
 year was 3 miles 3,126 ft.

Net gain 15 miles 3,459 ft.

This includes 4,238 ft. acquired by annexation from Glen-ville.

There was also changed from the low service
 system to high service system 3 miles 4,088 ft.
 Changed from high service system to low ser-
 vice system 1,924 ft.

Seven hundred and nine feet of 48-inch riveted steel pipe were laid in the Superior street tunnel.

This pipe will be connected with the 30-inch and 20-inch pipes in West River street and Superior street early in the spring. The 36-inch pipe crossing the river at this point can then be abandoned and taken out when the river is being widened.

There were also laid 2,053 feet of 48-inch pipe in Case avenue, between Central avenue and Prospect street, and 295 feet of 48-inch pipe and 114 feet of 42-inch pipe at the Division street Pumping Station, to connect the 42-inch pipe previously laid in Division street with other mains at this station and with the Allis pump.

The 42-inch pipe crosses the river through the Main street tunnel and extends into Lake street to Case avenue.

The valves on the 42-inch pipe were opened and the main went into service on September 14, 1898.

On January 17, 1898, the high service water was turned on to the 24-inch pipe in Harvard street and Dennison avenue from Marcelline avenue to Pearl street, a distance of about 18,312 feet.

During the turning on of the water there was one break in Harvard street and five in Dennison avenue. Five valve stems were also broken and two bent, and two stem nuts broken. The breaks in the valve stems were due to a very poor quality of metal being used in their construction.

The water was turned on to the high service system, for general use on the West Side, May 28, 1898.

WATER WORKS.

829

The total mileage of pipe in this city is now:

In low service district	438 miles 1,546 ft.
In high service district	77 miles 1,329 ft.

Total	515 miles 2,875 ft.
Pipe lowered during 1898 was . . .	1 mile 4,964 ft.
Service connections lowered during 1898 was	4,494 ft.

The increased number of stop gates set in 1898 was:

In low service district	276
In high service district	104

Total increase in 1898	380
In use prior to 1898	10,586

Total in use December 31, 1898 . .	10,966
Valves changed from the low to high service district were	84
Valves changed from the high to low service district were	9

FIRE HYDRANTS.

The increased number of fire hydrants set in 1898 is as follows:

In low service district	141
In high service district	70

Total in 1898	211
Total in use previous to 1898 . . .	5,712

Total in use December 31, 1898 . .	5,923
Hydrants changed from low service to high service system	54
Hydrants changed from high service to low service system	6

RECORD OF SERVICE CONNECTIONS FOR 1898.

Size in Inches.	Total Connections Made to December 31st, 1897.	Connect'ns Abandoned or Changed to Other Sizes in 1898.	Total.	Abandoned Connect'ns Reissued or Enlarged in 1898.	Connections made in 1898.	Total Connections December 31st, 1898.
½	3,457	.....	3,457	.....	336	3,793
¾	49,434	55	49,379	23	1,899	51,301
¾	1,285	5	1,280	.....	17	1,297
1	431	.....	431	.....	18	449
1¼	57	.....	57	.....	.....	57
1½	161	.....	161	8	.....	169
2	340	.....	340	10	.....	350
2½	4	.....	4	.....	.....	4
3	197	.....	197	6	.....	203
4	367	.....	367	13	.....	380
6	20	.....	20	.....	.....	20
8	4	.....	4	.....	.....	4
10	1	.....	1	.....	.....	1
12	2	.....	2	.....	.....	2
	55,760	60	55,700	60	2,270	58,030

Extended connections not in use, 1,272

Curb connections, 6,926

Total connections not in use, 8,198

Total connections issued, 58,030

Connections not in use, 8,198

Connections in use December 31, 1898, . . . 49,832

Connections in use December 31, 1897, . . . 48,207

Increase, 1,625

No. of connections turned off, 6,250

No. of connections turned on, 3,610

No. of curb connections investigated, . . . 991

No. of curb connections investigated with assessors, 425

The quantity of water supplied by meter measure was about 4,437,674,000 gallons, equal to an average of 12,158,000 gallons per day.

RECAPITULATION OF METERS—1898.

Size in Inches.....	$\frac{3}{4}$	1	1 $\frac{1}{2}$	2	3	4	6	Totals.
In use December 31, 1897.....	924	444	261	211	117	87	2	2046
Set in 1898.....	75	33	35	20	7	9	.....	179
Totals.....	999	477	296	231	124	96	2	2225
Taken out in 1898.....	35	15	12	5	4	3	.....	74
In use December 31, 1898.....	964	462	284	226	120	93	2	2151

Size and kind of meters in use December 31, 1898.

Size in Inches.....	$\frac{3}{4}$	1	1 $\frac{1}{2}$	2	3	4	6	Totals.
Worthington.....	922	441	270	215	117	77	.....	2042
Hersey and Hersey Disc.....	40	19	13	8	3	8	2	93
Torrent.....	.....	.....	.....	.....	.....	4	.....	4
Crown.....	2	1	.....	.....	.....	3	.....	6
Empire.....	.....	1	.....	.....	.....	.....	.....	1
Lambert.....	.....	.....	1	2	.....	.....	.....	3
Thomson.....	.....	.....	.....	1	.....	1	.....	2
Totals.....	964	462	284	226	120	93	2	2151

PRIVATE METERS.

Size in Inches.....	$\frac{1}{8}$	$\frac{3}{8}$	1	1 $\frac{1}{2}$	2	3	4	6	Totals.
In use December 31, 1897.....	40	107	35	15	21	3	13	1	235
Set in 1898.....	2	24	6	1	2				35
Totals.....	42	131	41	16	23	3	13	1	270
Taken out in 1898.....		3	1	1					5
In use December 31, 1898.	*42	†128	‡40	§15	||23	¶3	∞13	††1	265

*41 Worthington, 1 Lambert.

†97 Worthington, 2 Hersey, 12 Hersey Disc, 1 Thomson, 11 Lambert, 1 Niagra, 4 Union.

‡34 Worthington, 3 Hersey Disc, 3 Lambert.

§12 Worthington, 2 Hersey Disc, 1 Lambert.

||16 Worthington, 2 Hersey, 3 Hersey Disc, 1 Lambert, 1 Union.

¶2 Worthington, 1 Torrent.

∞11 Worthington, 1 Hersey, 1 Crown.

††1 Worthington.

Elevator Indicators in use December 31, 1897.....	188
Taken out in 1898.....	6
Set in 1898.....	3
In use December 31, 1898.....	185

Organ Motor Indicators in use December 31, 1898.....	5
Total of all registering devices in use December 31, 1898.....	2,606

There are also 31 re-registering meters now on our books.

DISTRIBUTION.

The total quantity of water pumped at the Division Street Pumping Station during the year 1898 was 18,921,532,856 gallons, equal to a daily average of 51,839,816 gallons, making an average increase in the pumpage of water over the year 1897 of 3,460,445 gallons per day, equal to 7.15 per cent.

HIGH SERVICE DISTRIBUTION.

The amount of water pumped at the High Service Pumping Station during the past year was 1,178,679,900 gallons, equal to an average of 3,229,260 gallons per day, or an increase of 18.49 per cent. over the previous year.

COLLECTIONS.

Total amount collected for water in 1898 was . . .	\$652,350.62
Less returned water rents	10,330.82
Making net receipts for water	\$642,019.80
Net receipts for water in 1897	\$623,173.22
Increase over the year 1897	\$18,846.58
The collections for water by meter measure were . .	\$236,675.96

MISCELLANEOUS.

On October 1st, the 30-inch main broke in Kinsman street, under the first culvert east of Woodland Hills avenue.

On October 2nd, the 30-inch main in Division street, just east of State street, was split, but caused no damage.

On December 21st, the 30-inch main in Superior street, just west of Bank street, broke, doing considerable damage to the pavement. No cause could be found for any of these breaks. There was a break in the 16-inch pipe in Central avenue, about 150 feet west of Erie street, on December 25th; crack in pipe. This was a bad pipe but had been in over twenty-five years. The crack was over a sewer connection put in a few years ago.

ELECTROLYSIS.

In my report for the year 1897 attention was called to the fact that the water service connections in Cedar avenue, east

of Willson avenue, were being badly affected by electrolysis. The accompanying blue print of Cedar avenue shows that in 1897 there were 21 water service connections which leaked and had to be repaired, and that in 1898 there were also 21 service connections injured and had to be repaired.

The service connections do not belong to the Water Works but to the owner of the property whose premises are supplied, nevertheless the department always has the trouble and expense of stopping leaks before the repairs can be made by the property owner's plumber. These cases, occurring so regularly, show that our cast iron pipe is liable to be attacked at any time and be injured.

It is possible that this injury to the service pipes was caused some time ago and is now developing and showing itself, and no doubt there are many more service connections that have been injured but have not yet been discovered.

I would recommend that every means and facility be given the City Electrician to enable him to locate the cause of this injury and from what source it comes, and provide a remedy therefor.

FUTURE EXTENSIONS AND RECOMMENDATIONS.

The following large mains will be laid during the coming year: 48-inch pipe in Kirtland street, from Lake to Hamilton streets. Hamilton from Kirtland street to Case avenue, and Case avenue, from Hamilton street to Prospect street; also 42-inch pipe in Case avenue, from Central avenue to Scovill avenue, and 30-inch pipe in Case avenue, from Scovill avenue to Woodland avenue.

It is proposed to increase the water supply in Woodland avenue and the adjoining streets by taking out the 6-inch pipe and laying a 12-inch and a 16-inch pipe in place thereof, one on each side of the street, from Case avenue to Central avenue.

I would recommend that during the coming year steps be taken to add to the pumping capacity of the high service system, either by establishing a pumping station on the West Side or by increasing the capacity of the Fairmount Station.

THE ESTIMATED EXPENDITURES FOR THE YEAR
1899 ARE AS FOLLOWS:

Operating expenses, meters, tapping, etc.	\$ 206,000
General repairs to mains, pumps, etc.	37,000
Contingent expenses, improvement of grounds, grading, paving, etc.	25,000
Interest and rent	102,870
Main and distributing pipe	250,000
Balance on Superior street tunnel	1,000
Balance on permanent inlet protection crib, East Side tunnel	100,000
East Side tunnel, construction and inspection dur- ing the year	220,000
Allis 20-million gallon pumping engine, balance due and bonus	37,000
Six Geary water tube boilers and mechanical stok- ers, balance due	4,901
Six new mechanical stokers for boilers in north building of Division Street Pumping Station .	8,000
One portable boiler and pulsometer pump	1,000
Kirtland Street Pumping Station, boiler and engine- house foundation, aqueducts, pump wells, etc.	138,000
Refunding money advanced for pipe extension . .	20,000
Total	<u>\$1,150,771</u>

Respectfully,

M. W. KINGSLEY,
Superintendent.

REPORT OF ENGINEER
OF
PUMPING DEPARTMENT.

Report of the Engineer of Pumping Department.

To the Superintendent of Cleveland Water Works:

DEAR SIR:—The Engineer of the West Side Pumping Station of the Cleveland Water Works would respectfully submit the following annual report for the year 1898:

WORTHINGTON ENGINE No. 1.

This machine is in about the same condition it was in a year ago. It has only pumped a little over 143,000,000 gallons the past year. In February, all the rods and valve stems were packed and the water valves overhauled. July 17th it broke the center out of a water cylinder head, which was replaced with a new one we had on hand. This was all the work done on this machine the past year. We hold it ready to start at any time when wanted.

WORTHINGTON ENGINE No. 2.

Although this is next to the oldest machine we have in the plant, it continues to do a fair portion of the work, with very little trouble or expense. It pumped over 3,000,000,000 gallons the past year, and all the repairs required were eight water cylinder head stucks, one water valve stem and two water valve seats, a connecting nut on one of the steam valve stems and the usual amount of packing.

The cast iron water valve seats in this machine may shortly have to be replaced with brass ones like those in No. 3.

This machine is in good working order and running every day.

WORTHINGTON ENGINE No. 3.

This machine has run almost constantly since the repairs it received a year ago last spring and with very little trouble

or expense. It pumped over 3,500,000,000 gallons the past year, and all the work required on it was to replace two or three broken water valves and the usual amount of packing. This machine continues to run every day.

· WORTHINGTON HIGH DUTY ENGINE No. 4.

This machine is in very bad condition, but it pumped over 5,000,000,000 gallons of water the past year, which is more than any other machine in the works pumped; but it stopped 28 or 30 times during the year on account of broken water valves, jacket pipes and leaky water glands. July 20th, we replaced a broken brass sleeve on the accumulator pipe with a new one, and on the 27th we shrunk an iron band on the outer end of each water cylinder to prevent the cracks from extending to the outside. A diaphragm in a section of one cylinder is cracked from one side to the other. It is the intention to replace the water cylinders with new ones in the spring, and while this work is being carried forward considerable other work must be done on this machine.

We keep it in working order and it is running every day.

KNOWLES ENGINE No. 1.

This engine has been out of service since the 6th of November. The steam piston must be overhauled and the air pump more securely fastened to the foundation, and the cast iron water valve seats replaced with brass ones, which we have ready to be fitted in place. On February 5th it broke the steam piston in the air pump engine, which stopped it until the 14th; and it stopped 10 times for broken water valves and 8 times to pack piston rods and valve stems, which was all the work required to be done on this machine the past year.

This engine pumped nearly 4,500,000,000 gallons of water the past year, and when it is overhauled it will be ready for business again.

KNOWLES ENGINE No. 2.

This machine has never been lowered to the same level as No. 1 Knowles, as we contemplate doing, but it has done con-

siderable service the past year in the position it is in. It pumped over 1,500,000,000 gallons of water the past year, and all the work required on it was to overhaul the valves in the air pump, stop some leaks and do the usual amount of packing on the rods and valve stems. This machine is ready to start at any time.

THE E. P. ALLIS TRIPLE EXPANSION ENGINE.

This machine was erected on the foundation provided for it in the new engine-house last winter and spring. It was complete and ready to start about July 1st, but owing to the discharge main not being connected it did not start until October 13th, when it made a few turns. It was run a few hours nearly every day until November 12th, when it was officially started by Mayor McKisson, in the presence of several city officials and a number of citizens. Since then it has run nearly every day—in all about two months—and pumped nearly 899,000,000 gallons of water. We expect to make a duty trial on this engine in a few days.

This machine is doing well and running every day.

BOILER FEED PUMPS.

Our feed pumps have made very little trouble or expense the past year. All the work required was to change a few valves and seats and some other trifling repairs.

The Cameron which we had in reserve has been placed on the foundation in No. 2 engine room, formerly occupied by the duplex Worthington, and the Worthington transferred to the basement of the Allis engine room to pump the bilge water into the sewer.

BOILERS.

We have 32 boilers in service at the works now, 26 tubular and 6 water tube boilers.

The 6 Geary water tube boilers were placed on the foundations, blocked up and tested with cold water pressure, ready for the masons to brick them in, about the middle of June. The completion of these boilers was delayed on account of

having to wait for material, but they were completed by the time the other work was ready, so there was really no delay.

These boilers have proved so far that they are strong enough to carry the pressure we require, but I cannot say that the mechanical work on them is first class, for there was too much fitting to do on the several parts after they arrived here.

Our expenses for repairs on boilers the past year were considerably more than they were the year before, owing to the flues having to be removed, pieced out and reset in three large tubular boilers.

It is my opinion that we would have less expense if all our tubular boilers were equipped with charcoal iron flues instead of steel ones.

It would be very convenient sometimes if we had a battery of four boilers on the foundations provided for them in the south fire room.

All our boilers are in good working order now.

MISCELLANEOUS.

January 13th, the contractor started to build the foundations for the six Geary water tube boilers, and they were completed and ready for the boilers March 1st.

March 21st we started to raise the flue behind the four Murphy boilers in the south fire room to the same elevation as the one behind the American boilers. This was completed April 28th, and in November we started to raise the flue behind the three Playford boilers, and this was completed in the last week of December. The latter change affords us much more room in the basement for our mason's supplies and improves the draft of boilers.

Last spring the north and south engine rooms received two coats of paint and the outside walls of the north and south fire rooms received two coats, and the iron framework of the roof in the south Murphy fire room was painted two coats.

In April the contractors started to finish the retaining wall in the south lot, and it was completed May 14th.

Last spring the foundation of the iron fence of the south

lot was raised to the level of the sidewalk and some grading and sodding done in the north and south lots.

In July the electric wires were remodeled in the north and south engine rooms and the south fire room, the old switchboard was replaced with a new one and the old arc lamps were replaced with seven new incandescent arc lamps. The new engine and fire rooms were wired complete for electric lighting, and a gas pipe was laid from Division street into the new engine and fire rooms and these rooms equipped with pipe and burners complete for gas.

Cupboards have been built in the basement of the new engine house and in the rear of the boilers in the new fire rooms for the men to keep their clothes in.

January 8th, the aqueduct that connects the shaft with the well in the new engine house was completed, but the discharge main was not connected to the Allis pump until August 20th, and on September 12th the well was filled through the aqueduct and the engine made a few turns with water pressure.

During the summer the 8-inch line that runs down the east side of the lots was tapped and an 8-inch line run across the lot and around the south end of the new buildings to a point at the north end of the retaining wall, and four fire hydrants placed at convenient intervals along the line; and the 8-inch pipe at the foot of Taylor street was laid into the north lot and connected to the west end of our fire line, making a complete circulation.

The driveways and yards in both lots have been curbed and paved with brick, which work was finished November 18th. Some flagging was laid on the sidewalk on the north side of the street and some in the south lot, but owing to the weather it will not be completed until next spring.

In November a tight board fence was built from the east end of the stone retaining wall to the southeast corner of the south lot. From that point north to the angle in the fence on Kentucky street a picket fence was built.

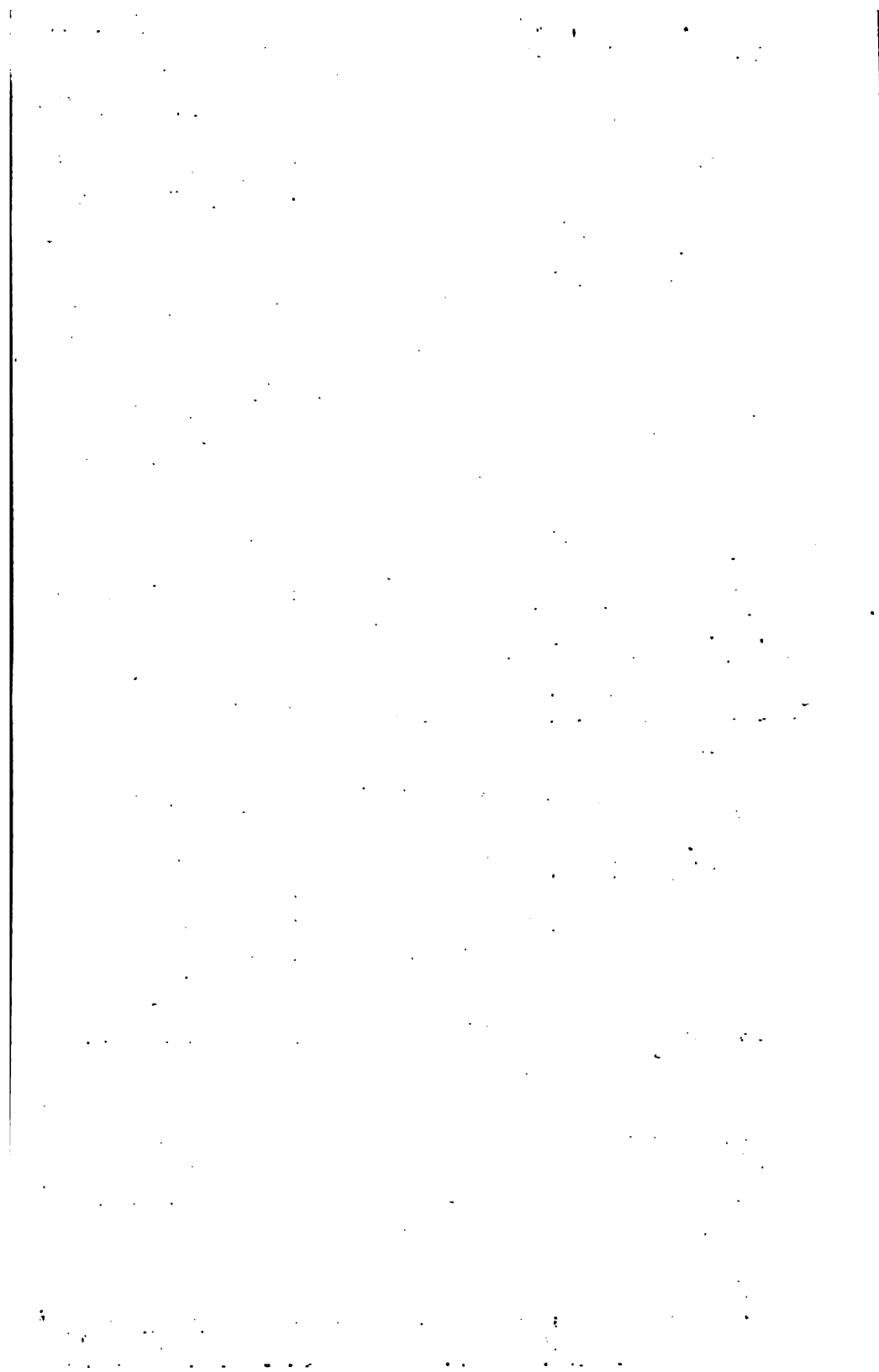
In December we had the tops of the poplar trees on the south line of the south lot cut off about thirty feet from the ground. The ties were replaced with new ones on the curved track that runs into the south lot from the south line of Divi-

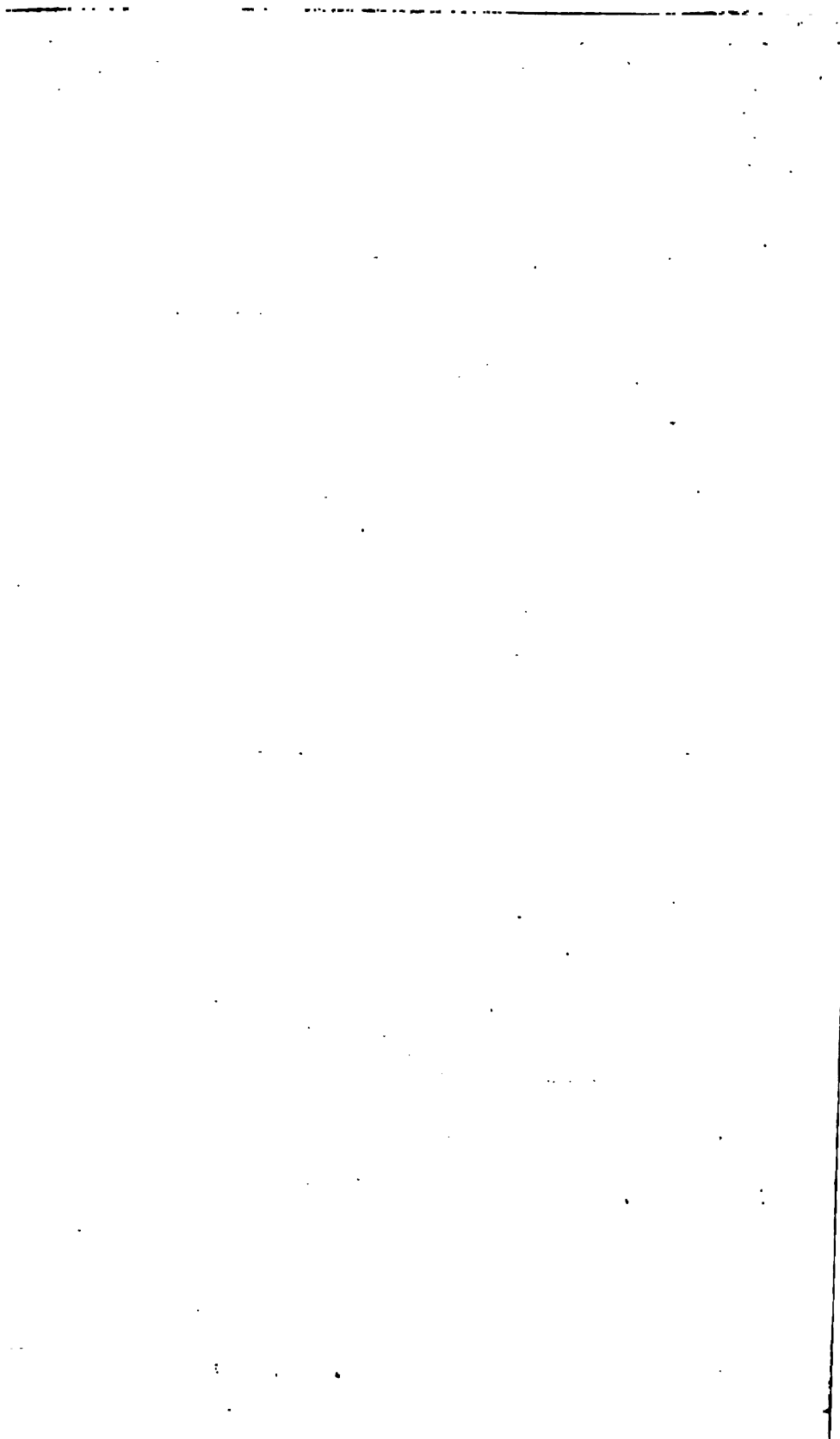
sion street to the end of the track scale, and the rails were replaced with heavier ones from the scales to the north line of the north lot.

Two offices were partitioned off the new engine room and furnished with desks and chairs. Adjoining the offices are provided stationary wash bowls and water closets.

Respectfully submitted,

HENRY BOTTEN,
Engineer in Charge.





DIVISION STREET PUMPING STATION.

SCHEDULE

Showing the gallons of water pumped and coal consumed in pumping, percentage of coal consumed and water pumped by each engine. Contract price of coal and cost of coal for raising one million (1,000,000) gallons into reservoir.

Year 1898	Engine.	Number.	Water pumped by the different engines.	Pounds of coal consumed by the different engines.	Per cent. of water pumped by the different engines.	Per cent. of coal consumed by the different engines.	Coal consumed by the different engines pumping 1,000,000 gallons into reservoir.	Per cent. of coal consumed by the different engines pumping 1,000,000 gallons into reservoir.	Contract price of coal.	Cost of coal for pumping 1,000,000 gallons into reservoir.
.....	Worthington	1	143,086,080	566,000	.756	.863	3.955	16.698		2.58
.....	Worthington	2	3,342,749,220	13,479,800	17.666	20.544	4.032	17.023		2.64
.....	Worthington	3	3,501,011,660	13,566,150	18.503	20.676	3.975	16.360		2.54
.....	Worthington	4	5,037,178,080	13,738,000	26.621	20.938	2.727	11.513		1.78
.....	Knowles	1	4,454,991,688	17,189,700	23.545	26.198	3.858	16.288	\$1.31	2.53
.....	Knowles	2	1,543,772,256	5,659,850	8.159	8.626	3.666	15.477		2.30
.....	Allis	1	898,743,872	1,414,200	4.750	2.155	1.573	6.641		1.03
.....	.....	...	18,921,532,856	65,613,700	100.000	100.000	3.384	100.000	1.31	2.22

DEPARTMENT OF PUBLIC WORKS.

WORTHINGTON DUPLEX ENGINE No. 1.—RECORD FOR 1898.

Months.	Days.	Pumping.			Coal Consumed.			Gallons of Water Pumped.	Height in Feet and Decimals.	Duty.
		Hrs.	Min.	Strokes.	Raising Steam.	Pumping.	Total.			
January	6	118	20	89,879	3,000	215,950	218,950	55,724,980	197.746	42,088,823
February	4	59	15	35,825	6,000	85,650	91,650	22,211,500	198.360	40,080,924
March										
April										
May										
June										
July	7	143	15	105,080	3,000	252,100	255,100	65,149,600	209.281	44,708,363
August										
September										
October										
November										
December										
Totals and averages	17	320	50	230,764	12,000	554,000	566,000	143,086,080	201.796	42,672,572

WORTHINGTON DUPLEX ENGINE No. 2.—RECORD FOR 1898.

WATER WORKS.

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Months.	Days.	Pumping.		Raising Steam.	Coal Consumed.		Gallons of Water Pumped.	Height in Feet and Decimals.	Duty.
		Hrs.	Min. \ Strokes.		Pumping.	Total.			
January	31	744	.....	.....	1,171,200	1,171,200	290,784,960	196,243	40,756,115
February	28	668	30	.....	1,131,800	1,131,800	280,737,880	200,677	41,637,666
March	31	738	05	.....	1,143,000	1,143,000	283,438,580	197,333	40,982,654
April	30	716	45	.....	1,075,250	1,075,250	267,371,280	196,220	41,296,051
May	31	741	30	.....	1,128,050	1,128,050	279,825,220	198,636	41,216,754
June	30	715	.....	.....	1,242,050	1,242,050	306,064,440	204,930	42,520,046
July	26	594	.....	3,000	1,084,750	1,087,750	256,644,040	206,391	42,695,961
August	31	741	45	.....	1,223,750	1,223,750	303,550,140	198,012	41,085,336
September	26	594	35	3,000	1,026,800	1,029,800	254,716,460	197,124	40,784,847
October	31	744	.....	.....	1,208,800	1,208,800	300,114,720	192,609	40,000,642
November	27	597	.....	2,000	833,000	835,000	206,643,520	187,352	38,783,856
December	31	744	.....	.....	1,253,350	1,253,350	310,868,000	192,980	40,037,982
Totals and averages	353	8339	10	8,000	13,471,900	13,479,800	3,342,749,220	197,377	40,942,455

WORTHINGTON DUPLEX ENGINE No. 3.—RECORD FOR 1898.

Months.	Days.	Pumping.			Coal Consumed.			Gallons of Water Pumped.	Height in Feet and Decimals.	Duty.
		Hrs.	Min.	Strokes.	Raising Steam.	Pumping.	Total.			
January	31	744	.....	469,348	.....	1,135,150	1,135,150	290,995,760	196.243	42,060,910
February	28	672	.....	463,041	.....	1,110,250	1,110,250	287,065,420	200.677	43,405,589
March	31	742	.....	459,259	.....	1,101,800	1,101,800	291,740,580	197.333	42,653,310
April	30	720	.....	437,585	.....	1,049,950	1,049,950	271,302,700	196.220	42,411,758
May	31	744	.....	457,065	.....	1,096,650	1,096,650	283,380,300	196.636	42,935,564
June	30	717	.....	508,585	.....	1,220,250	1,220,250	315,322,700	204.950	44,300,832
July	31	744	.....	530,705	.....	1,273,450	1,273,450	329,037,100	207.202	44,783,096
August	31	744	.....	498,187	.....	1,196,750	1,196,750	307,635,940	196.012	42,577,717
September	27	637	40	444,045	.....	1,065,550	1,065,550	275,307,900	196.948	42,565,114
October	31	733	30	480,008	.....	1,152,000	1,152,000	297,612,160	192.609	41,627,066
November	30	718	.....	398,580	.....	983,050	983,050	245,879,600	187.429	40,445,366
December	31	744	.....	504,325	.....	1,211,300	1,211,300	312,661,500	192.980	41,669,561
Totals and averages	362	8660	10	5,946,793	13,566,150	13,566,150	3,501,011,660	197.486	42,629,710

WORTHINGTON DUPLEX ENGINE No. 4.—RECORD FOR 1898.

WATER WORKS.

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Months.	Days.	Pumping.			Coal Consumed.			Gallons of Water Pumped.	Height in Feet and Decimals.	Duty.
		Hrs.	Min.	Strokes.	Raising Steam.	Pumping.	Total.			
January	27	625	20	456,906	6,000	1,096,300	1,102,300	402,077,250	196.493	60,407,706
February	28	624	45	500,753	.....	1,201,750	1,201,750	440,662,540	201.426	62,250,566
March	19	445	30	328,197	.....	777,600	777,600	238,813,360	198.916	62,233,218
April	3	58	.....	42,380	3,000	101,600	104,600	37,264,400	196.976	59,191,717
May	31	738	30	542,217	.....	1,302,750	1,302,750	477,150,960	199.450	61,569,256
June	30	716	45	584,463	.....	1,402,400	1,402,400	514,327,440	206.118	68,711,692
July	31	738	15	576,365	.....	1,372,950	1,372,950	507,201,200	207.948	64,746,404
August	31	737	30	548,871	.....	1,317,200	1,317,200	483,006,480	198.761	61,423,188
September	30	699	55	537,197	.....	1,288,950	1,288,950	472,733,360	197.098	60,925,327
October	31	739	45	548,261	.....	1,327,450	1,327,450	482,469,680	193.358	59,231,025
November	30	684	45	477,188	.....	1,145,000	1,145,000	419,925,440	188.162	58,161,237
December	31	696	30	581,268	.....	1,386,060	1,386,060	511,515,840	195.730	59,863,906
Totals and averages	322	7505	30	5,724,066	9,000	13,723,000	13,738,000	5,037,178,080	198.203	61,350,407

DEPARTMENT OF PUBLIC WORKS.

KNOWLES DUPLEX ENGINE No. 1.—RECORD FOR 1898.

Months.	Days.	Pumping.			Coal Consumed.			Gallons of Water Pumped.	Height in Feet and Decimals.	Duty.
		Hrs.	Min.	Strokes.	Raising Steam.	Pumping.	Total.			
January	31	744	.....	471,746	.....	1,707,700	1,707,700	439,667,272	192,786	41,503,700
February	20	464	.....	335,062	6,000	1,205,900	1,211,900	312,277,784	197,578	42,635,506
March	31	744	.....	461,292	.....	1,660,550	1,660,550	429,924,144	194,000	41,999,289
April	30	718	30	434,450	.....	1,560,800	1,560,800	404,907,400	192,387	41,841,846
May	31	744	.....	455,303	.....	1,637,750	1,637,750	424,342,396	195,384	42,325,584
June	30	719	..	534,767	.....	1,914,950	1,914,950	498,402,844	202,035	43,969,312
July	31	736	30	547,398	.....	1,980,400	1,980,400	510,146,976	203,868	44,390,765
August	31	719	.....	474,824	.....	1,709,150	1,709,150	442,535,968	194,678	42,148,704
September	30	720	.....	501,654	.....	1,798,100	1,798,100	467,541,528	193,015	41,965,992
October	31	738	.....	493,092	.....	1,756,600	1,756,600	454,873,784	189,276	40,983,668
November	6	138	.....	75,505	.....	271,800	271,800	70,371,562	187,032	40,491,440
December .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals and averages	302	7185	4,780,034	6,000	17,183,700	17,189,700	4,454,991,688	194,301	42,214,985

KNOWLES DUPLEX ENGINE No. 2.—RECORD FOR 1898.

WATER WORKS.

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Month.	Day.	Pumping.			Raising Steam.	Coal Consumed.		Gallons of Water Pumped.	Height in Feet and Decimals.	Duty.
		Hrs.	Min.	Strokes.		Pumping.	Total.			
January										
February	12	244	10	146,862	3,000	505,960	506,960	138,730,064	204.454	46,600,530
March	13	301	15	179,720	3,000	612,100	615,100	167,499,040	198.952	45,301,716
April	28	682	45	388,506		1,332,750	1,332,750	366,747,592	198.884	45,763,385
May										
June	9	114	30	67,426	6,000	230,060	236,060	62,841,032	208.882	46,496,695
July	29	440	40	266,204	6,000	871,000	877,000	238,782,128	210.705	47,970,809
August	29	422	45	229,280	6,000	779,400	785,400	213,683,960	200.992	45,726,679
September	26	416	30	220,902	6,000	749,850	755,850	205,880,664	198.791	45,276,555
October	1	10	30	3,028		10,250	10,250	2,822,096	197.916	45,564,786
November										
December	12	150	30	157,490	3,000	535,500	538,500	146,780,680	196.980	44,656,433
Totals and averages	159	2763	35	1,654,408	33,000	5,696,860	5,699,860	1,543,772,256	201.723	46,007,985

ALLIS TRIPLE EXPANSION ENGINE.—RECORD FOR 1898.

Months.	Days.	Pumping.			Coal Consumed.			Gallons of Water Pumped.	Height in Feet and Decimals.	Duty.
		Hrs.	Min.	Strokes.	Raising Steam.	Pumping.	Total.			
January										
February										
March										
April										
May										
June										
July										
August										
September										
October	8	13		17,246		17,250	17,250	13,003,484	197.161	124,028,256
November	29	626	20	639,981	2,000	779,700	781,700	482,545,574	192.289	99,055,874
December	23	499	55	534,741	4,000	611,250	615,250	403,194,714	197.450	107,979,799
Totals and averages	60	1129	15	1,191,968	6,000	1,408,200	1,414,200	898,743,872	196.827	103,747,125

WATER WORKS.

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SCHEDULE

Showing the Distribution of Water for Each Day and Month in the Year 1898.

MONTHS.	Gallons of Water Pumped by Worthington Engine No. 1.	Gallons of Water Pumped by Worthington Engine No. 2.	Gallons of Water Pumped by Worthington Engine No. 3.	Gallons of Water Pumped by Worthington Engine No. 4.	Gallons of Water Pumped by Knowles Engine No. 1.	Gallons of Water Pumped by Knowles Engine No. 2.	GALLONS DISTRIBUTED.				Per Day.	Per Month.	Average Per Day.	Per Day.	Per Month.	Per Day.	Per Month.
							Gallons of Water Pumped by Knowles Engine No. 1.	Gallons of Water Pumped by Knowles Engine No. 2.	Gallons of Water Pumped by Knowles Engine No. 3.	Gallons of Water Pumped by Knowles Engine No. 4.							
January	55,724 980	280,784,980	280,985,760	402,077,280	438,667,272	.....	.....	.....	.....	.....	.....	1,479,250,252	47,717,750	127.3	138.7	.....	.....
February	22,211,500	280,737,860	287,085,420	440,662,640	312,277,784	.....	138,730,064	.....	.....	.....	.....	1,481,705,268	52,918,045	141.1	151.6	.....	.....
March .....	.....	283,438,580	284,740,580	288,813,360	429,924,144	.....	167,499,040	.....	.....	.....	.....	1,454,415,704	46,916,632	125.1	134.4	.....	.....
April .....	.....	257,371,280	271,302,700	37,284,400	404,907,400	.....	386,747,592	.....	.....	.....	.....	1,347,623,572	44,920,779	119.8	128.7	.....	.....
May .....	.....	279,825,220	283,380,300	477,150,960	424,342,396	.....	.....	.....	.....	.....	.....	1,464,698,876	47,248,350	125.9	135.4	.....	.....
June .....	.....	306,054,440	315,322,700	514,327,440	498,402,844	.....	62,841,032	.....	.....	.....	.....	1,698,948,456	56,631,615	151.1	162.3	.....	.....
July	65,149,600	256,644,040	329,037,100	507,201,200	510,146,976	.....	238,782,128	.....	.....	.....	.....	1,906,961,044	61,514,372	164.1	176.3	.....	.....
August .....	.....	303,550,140	307,635,940	483,006,480	442,535,968	.....	213,693,960	.....	.....	.....	.....	1,750,417,488	56,465,080	150.6	161.8	.....	.....
September .....	.....	254,716,460	275,307,900	472,733,360	467,541,528	.....	205,880,664	.....	.....	.....	.....	1,676,179,912	55,872,663	148.9	160.1	.....	.....
October .....	.....	300,114,720	297,612,160	482,469,680	454,873,784	.....	2,822,066	.....	.....	.....	.....	1,550,925,924	50,020,868	133.4	145.3	.....	.....
November .....	.....	206,643,520	245,879,600	419,925,440	70,371,562	.....	.....	.....	.....	.....	.....	1,425,365,828	47,512,194	126.7	136.1	.....	.....
December .....	.....	310,868,000	312,681,500	511,515,840	.....	.....	146,780,680	.....	.....	.....	.....	1,685,040,734	54,356,152	144.9	155.7	.....	.....
Totals	143,086,080	3,342,749,220	3,501,011,680	5,087,178,080	4,451,991,688	.....	1,543,772,256	.....	.....	.....	.....	18,921,532,856	51,839,816	138.2	148.5	.....	.....

* Population, estimated (Health Office)	370,000	† Number of consumers	949,000
Suburbs, estimated	5,000	† Connections in use December 31, 1898	49,832
Total	375,000		

SCHEDULE

Showing the Total and Average Quantities of Water Pumped each Year since the beginning of the Water Works.

YEARS.	GALLONS DISTRIBUTED.				Per Cent. of Increase.
	Per Year.	Per Day.	Each Inhabitant Per Day.	Each Consumer Per Day.	
1857	127,262,265	348,664	7.75	110.68	.....
1858	142,155,434	398,467	8.37	98.44	11.70
1859	198,284,080	513,107	11.31	91.27	39.45
1860	280,220,354	710,964	14.11	105.57	31.87
1861	322,175,022	881,599	16.32	114.50	23.81
1862	369,673,092	1,012,794	19.47	120.57	14.74
1863	420,790,875	1,152,875	20.97	117.54	12.83
1864	476,114,225	1,300,858	21.68	123.89	12.14
1865	517,261,005	1,417,153	21.80	122.70	8.64
1866	587,372,220	1,609,239	22.36	124.26	13.55
1867	696,369,375	1,907,861	23.85	115.98	18.55
1868	768,736,975	2,106,265	24.77	116.08	10.40
1869	898,336,425	2,462,839	27.36	120.20	16.92
1870	1,126,228,500	3,065,558	33.86	113.20	25.28
1871	1,367,621,100	3,746,907	35.68	124.90	21.43
1872	1,686,370,895	4,607,571	40.07	131.64	22.67
1873	1,869,768,835	5,095,230	43.06	137.71	10.85
1874	2,050,252,910	5,625,150	45.36	141.10	9.65
1875	2,216,775,816	6,073,358	44.00	136.65	8.12
1876	2,399,225,408	6,573,220	49.22	131.28	8.23
1877	2,520,326,074	7,726,920	55.91	142.24	17.55
1878	2,892,944,823	7,925,882	51.13	135.05	2.57
1879	3,455,271,961	9,466,498	62.69	145.61	19.43
1880	3,725,683,021	10,179,461	65.25	145.23	7.32
1881	4,847,209,363	13,280,025	76.76	162.34	30.10
1882	4,494,538,536	12,313,904	68.41	136.04	-7.27

SCHEDULE

Showing the Total and Average Quantities of Water Pumped each Year since the beginning of the Water Works.

(Continued.)

YEARS.	GALLONS DISTRIBUTED.				Per Cent. of Increase.
	Per Year.	Per Day.	Each Inhabitant Per Day.	Each Consumer Per Day.	
1883	5,187,432,657	14,212,144	75.60	136.90	15.41
1884	5,990,378,137	16,367,153	82.56	137.83	15.47
1885	6,552,003,190	17,950,694	93.49	139.28	9.37
1886	7,128,673,365	19,530,611	91.26	136.90	8.80
1887	8,127,146,648	22,266,155	95.97	140.38	14.00
1888	8,491,091,162	23,199,703	95.08	130.06	4.48
1889	9,079,461,064	24,875,236	98.71	104.51	6.93
1890	10,142,312,796	27,787,158	106.05	128.64	11.70
1891	11,766,533,132	32,237,077	111.16	136.02	16.01
1892	13,338,134,220	36,442,989	117.56	142.91	13.35
1893	15,389,565,660	42,163,194	129.73	167.91	15.38
1894	14,414,534,830	39,491,876	112.83	134.32	-6.34
1895	17,211,343,804	47,154,366	136.6	151.1	19.42
1896	16,700,534,508	45,629,875	128.5	142.5	-2.96
1897	17,658,470,308	48,379,371	136.3	148.9	5.74
1898	18,921,532,856	51,839,816	138.2	148.5	7.15

FAIRMOUNT PUMPING STATION.
Cornish Engine Record for 1898.—West Engine.

MONTHS.	Days.	PUMPING.			COAL CONSUMED.			Gallons of Water Pumped.	Height in Feet and Decimals.	Duty.
		Hrs.	Min.	Strokes.	Raising Steam.	Pumping.	Total.			
January	31	432	45	243,050	38,000	238,578	276,578	79,624,050	161,846	38,365,365
February										
March	31	458		269,650	38,000	226,710	264,710	86,557,850	162,680	44,488,647
April										
May	31	464		270,800	38,000	204,160	242,160	86,862,600	162,554	48,761,786
June										
July	30	668		376,150	6,800	326,652	333,452	120,744,150	162,586	49,237,475
August										
September	30	608		346,550	12,800	289,408	302,208	111,242,550	162,505	50,094,561
October	5	120		52,850		60,240	60,240	16,964,850	161,983	38,149,271
November	30	556		317,350	12,800	272,440	285,240	101,869,350	164,833	49,269,756
December										
Totals and averages	188	3,306	45	1,881,200	146,400	1,618,188	1,764,583	603,866,200	162,729	46,570,980

FAIRMOUNT PUMPING STATION.
Cornish Engine Record for 1898.—East Engine.

MONTHS.	Days.	PUMPING.			COAL CONSUMED.			Gallons of Water Pumped.	Height in Feet and Decimals.	Duty.
		Hrs.	Min.	Secs.	Raising Steam.	Pumping.	Total			
January .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
February	28	417	30	248.700	34,400	229,625	264,025	79,832,700	161.508	40,839,647
March .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
April	30	449	.....	267.650	36,800	232,582	269,382	85,915,650	161.802	43,155,808
May .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
June	29	555	.....	316.150	11,600	250,500	262,100	101,484,150	162.447	52,601,115
July .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
August	31	616	30	351.500	16,400	306,380	322,780	112,831,500	162.529	47,512,434
September .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
October	26	465	.....	256.200	10,400	233,430	243,830	82,240,200	162.701	45,892,356
November .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
December	30	644	.....	350.500	10,400	357,280	367,680	112,510,500	164.138	42,004,438
Totals and averages	174	3,147	.....	1,790.700	120,000	1,906,777	1,729,777	574,814,700	162.520	45,164,597

BOTH ENGINES.

	Days.	PUMPING.			COAL CONSUMED.			Gallons of Water Pumped.	Height in Feet and Decimals.	Duty.
		Hrs.	Min.	Strokes.	Raising Steam.	Pumping.	Total.			
West Engine.....	188	3,306	45	1,881,200	146,400	1,618,188	1,764,588	603,865,200	162,729	46,570,990
East Engine.....	174	3,147	.....	1,790,700	120,000	1,609,777	1,729,777	574,814,700	162,520	45,164,587
Totals and averages	362	6,453	45	3,671,900	266,400	3,227,965	3,494,365	1,178,679,900	162,625	45,874,102

SCHEDULE

Showing the Distribution of Water for each Day and Month
in the Year 1898.

IN HIGH SERVICE DISTRICT.

Months.	Gallons of Water Pumped by East Cornish Engine.	Gallons of Water Pumped by West Cornish Engine.	Gallons Pumped.	
			Per Month.	Average Per Day.
January		79,624,050	79,624,050	2,568,518
February	79,832,700		79,832,700	2,851,168
March		86,557,650	86,557,650	2,792,182
April	85,915,650		85,915,650	2,863,855
May		86,862,600	86,862,600	2,802,019
June	101,484,150		101,484,150	3,382,805
July		120,744,150	120,744,150	3,701,424
August	112,831,500		112,831,500	3,689,726
September		111,242,550	111,242,550	3,708,085
October	82,240,200	16,964,850	99,205,050	3,200,163
November		101,869,350	101,869,350	3,395,645
December	112,510,500		112,510,500	3,629,373
Totals	574,814,700	603,865,200	1,178,679,900	3,229,260

SCHEDULE

Showing the Total and Average Quantities of Water Pumped each
Year by the High Service Pumping Engines.

Year.	Gallons Distributed.		Per Cent. of Increase.
	Per Year.	Average Per Day.	
1886.....	207,975,900	565,797	.....
1887.....	124,355,400	340,699	.....
1888.....	127,324,650	347,882	27.1
1889.....	173,582,600	475,431	36.29
1890.....	218,328,150	596,159	25.81
1891.....	339,008,100	928,789	55.27
1892.....	406,016,850	1,109,335	19.77
1893.....	638,902,350	1,750,417	57.60
1894.....	593,866,050	1,627,030	-7.05
1895.....	859,509,600	2,354,821	44.73
1896.....	864,998,700	2,368,384	.64
1897.....	994,730,850	2,725,290	15.00
1898.....	1,178,679,900	3,228,260	18.49

LOW SERVICE DISTRICT.—SCHEDULE SHOWING THE EXTENSION OF WATER PIPE IN 1898.

Size.	Side.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
48	W	Case	From 17 feet N. of Central ave. to 3 feet N. of S. line Prospect st.	2,053		
48		{ Division st. }	{ " 30-inch pipe in Division st., at 4 feet 9 inches E. of E. line }	286		
48		{ Stat'n grounds }	{ of grounds 100 feet 6 inches E. of building, for Allis pump }	709		Riveted steel pipe.
		{ Superior st. }	{ Superior st. W. of E. River st. to W. River st. S. of Wash-		3,057	
		{ River Tunnel }	{ ington st. }			
42	N	Division.	{ From end of pipe 109 feet E. of E. line pumping station grounds }	114	114	
			{ west to 30-inch pipe in Division st. }			
36		{ Division St. }	{ From 50 feet 5 inches E. of building, for Allis pump, to face of }	50	50	
		{ Stat'n grounds }	{ building. }			
12	E.	Rhodes	From 12-inch pipe in Dennison ave. to pipe in Marvin ave	2,831	2,831	
10	W	Doan	From 8-inch pipe in Quincy st. north to connect.	18		
10	S.	Detroit	" pipe in Lowell st. to 169 feet W. of Wellington ave.	2,578		6-inch pipe taken out.
10	E.	Oliver	" 3 feet S. of Payne ave. to 8 feet N. of Euclid ave. to connect.	1,622		
10	W	Pleasant	" 10-inch pipe in Clark ave. south.	718	4,936	4-inch pipe abandoned.
8	W	Alabama	From 334 feet north of Lake st. north.	127		4-inch pipe taken out.
			Forward.			

LOW SERVICE DISTRICT.—Schedule Showing the Extension of Water Pipe in 1898—Continued.

Size.	Side.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
			<i>Forward</i>			
8	E.....	Ansel.....	From 12 feet north of Wade Park ave. north.....	49		
8	W.....	Ansel.....	" 8-inch pipe in St. Clair st. north.....	17		
8	W.....	Bank.....	" north line of Lake st. north.....	316		{ 4-inch pipe taken out and abandoned.
8	E.....	Belden.....	" end of pipe 11 feet north of Hamilton st. north.....	6		
8	W.....	Carabelli.....	" S. L. Euclid ave. south.....	347		
8	E.....	Columbus.....	{ " 8-inch pipe in Pearl st. at 126 feet S. of Brevier st. to pipe } in Brevier st.....	160		4-inch pipe taken out.
8	S.....	Division.....	" 12-inch pipe in Old River st. at Taylor st. east.....	168		
8		{ Division St. } { Stat'n grounds }	{ " a point 54½ feet W. of E. L. grounds and 5½ feet N. of old } south engine house south and west.....	331		
8	W.....	Gordon.....	" N. L. of Detroit st. north.....	1,307		{ 8-inch pipe on E. side taken out and abandoned.
8	N.....	Hamilton.....	" end of pipe 93 feet E. of Lawrence st. east.....	168		
8	E.....	Oliver.....	" S. line Superior st. to N. line Payne ave.....	812		
8	W.....	Pearl.....	" end of pipe 119½ feet S. of Selser st. south.....	848		
8	N.....	Quincy.....	" end of pipe 114 ft. W. of Streator ave. to 10-inch pipe in Doan.....	976		
8	S.....	Union.....	" end of pipe 135 feet E. of Homewood st. east.....	84		
8	S.....	Wade Park.....	" end of pipe 6 feet E. of Ansel ave. to 12 feet E. of boulevard.....	577		
			<i>Forward</i>			

LOW SERVICE DISTRICT.—Schedule Showing the Extension of Water Pipe in 1898—Continued.

Size.	Side.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
			<i>Forward.</i>			
8	S.	Wade Park	From pipe in Dunham ave. to pipe in Norwood ave.	337		
8	E.	Wellington	" pipe in W. Madison ave. to 5 feet S. of N. line Willard st.	2,138		{ 4-inch pipe taken out and abandoned.
8	W.	Willson	" end of pipe 35 feet S. of Armitage st. south to connect.	632	10,350	
6	E.	Alexander	From S. line Bower st. to pipe in Bower st.	17		
6	E.	Alger	" pipe in Herman st. south	639		
6	W.	Almira	" pipe in Churchill st. north	30		
6	W.	Ansel	" 30½ feet S. of N. line St. Clair st. north	31		
6	N.	Arnold	" 12-inch pipe in Rhodes ave. to E. line Rhodes ave.	13		
6	N.	Bayne	" 8-inch pipe in Gordon ave. west to connect.	49		
6	E.	Bazetta	" N. pipe in Willard st. north	24		
6	S.	Beecher	" E. L. Norwood ave. to 232 feet E. of Dunham to connect	569		
6	W.	Billings	" pipe in Euclid ave. to pipe in E. Prospect st.	983		
6	S.	Bonna	" pipe in E. Madison ave. west to connect	733		
6	S.	Bower	" 12 feet E. of Willson ave. to Ezra st.	486		
6	N.	Bradwell	" pipe in Pearl st. west	25		
			<i>Forward.</i>			

LOW SERVICE DISTRICT.—Schedule Showing the Extension of Water Pipe in 1898—Continued.

Size.	Side.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
			<i>Forward.</i>			
6	W	Bratenahl.....	From N. pipe in St. Clair st. north.....	646		
6	N	Brevier.....	" pipe in Columbus st. east.....	280		
6	W	Burns.....	" pipe in Fairfield st. south.....	505		
6	N	Bush.....	" E. L. of Rhodes ave. to 12 feet W. of Rhodes ave.....	62		
6	N	Canal.....	" pipe in Harrison st. east to connect.....	331		
6	E	Cemetery.....	" pipe in Outhwaite ave. south to connect.....	601		
6	W	Chandler.....	" end of pipe 314 feet N. of Donald st. north to connect.....	755		
6	N	Chatham.....	" E. L. of York st. to 18 feet W. of Pearl st. to connect.....	513		
6	N	Chatham.....	" pipe in Penn st. west.....	41		
6	S	Churchill.....	" end of pipe 257 feet E. of Adrian st. to pipe in Parkwood st.....	923		
6	S	Clark.....	" pipe in Merchants ave. east.....	31		
6	W	Crawford.....	" N. L. Wade Park ave. north.....	51		
6	S	Cudell.....	" pipe in Mueller ave. to pipe in Wellington ave.....	551		3-inch pipe abandoned.
6	E	Davis.....	" pipe in W. Madison ave. to pipe in Willard st.....	2,162		{ 4-inch pipe taken out and abandoned.
6		Division.....	" 8-inch pipe in Division st. at 149 feet E. of Taylor st. south.....	18		
6		Division.....	" 8-inch pipe in Division st. at 119 ft. E. of Taylor st. N. to connect.....	137		
			<i>Forward.</i>			

LOW SERVICE DISTRICT.—Schedule Showing the Extension of Water Pipe in 1898—Continued.

Size.	Side.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
			<i>Forward.</i>			
6		{ Division St. }	From hydrant at S. W. corner of Geary boiler house west and north	163		
6	E.	{ Stat'n grounds }	" 4 feet N. of Woodbine st. to S. L. of Franklin ave.	854		
6	N.	Duane.	" E. L. to W. L. Oliver st.	60		
6	S.	E. Chestnut.	" pipe in Adrian st. to pipe in Parkwood st.	1,218		
6	S.	Eastlake.	" 6-inch pipe in Amesbury ave. west.	30		
6	S.	Edmunds.	" pipe in Dana st. to pipe in Norwood ave.	416		
6	W.	Edna.	" pipe in Detroit st. to S. L. of Lake ave.	1,221		{ 4-inch pipe abandoned and taken out.
6	S.	Elliott.	" W. L. of Waverly st. to 10-inch pipe in Gordon ave.	1,021		
6	N.	Fir.	" 10-inch pipe in Gordon ave. west to connect.	285		
6	E.	Fir.	" pipe in Grand ave. south.	284		
6	W.	Foot.	" 3 feet N. of Clark ave. north.	756		
6	S.	Fountain.	" pipe in Columbus st. west.	24		4-inch pipe taken out.
6	E.	Franklin.	" pipe in Holton ave. south.	670		
6	S.	Garretson.	" pipe in Smithfield st. to pipe in Salisbury ave.	568		
6	E.	Goodwalt.	" pipe in Laird st. to pipe in Mason st.	820		
6	N.	Goulder.	" end of pipe 457 feet E. of Ewald st. east.	66		
			<i>Forward.</i>			

LOW SERVICE DISTRICT.—Schedule Showing the Extension of Water Pipe in 1898—Continued.

Size.	Side.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
			<i>Forward.</i>			
6	W.....	Grove Lane.....	From S. L. of Holmden ave. to N. L. of Holmden ave.....	60		
6	W.....	Halstead	" pipe in Detroit st. north.....	50		4-inch pipe taken out.
6	S.....	Hamilton	" pipe in Kirtland st. east to connect.....	1,560		
6	E.....	Harrison	" pipe in Canal st. north to connect.....	74		
6	S.....	Heisley.....	" pipe in Tod st. west to connect	38		
6	E.....	Helen.....	" pipe in Western ave. south.....	332		
6	W.....	Herrick.....	" pipe in Detroit st. north.....	50		4-inch pipe taken out.
6	S.....	Holton.....	" end of pipe on W. L. of Garretson st. to pipe in Garretson st.....	33		
6	E.....	Homewood.....	" pipe in Morgan ave. to pipe in Salem st.....	560		
6	E.....	Hurlbut.....	" pipe in Perkins ave. north to connect.....	392		
6	N.....	Hurley.....	" pipe in Bridgeview ave. east.....	485		
6	N.....	Jay.....	" pipe in Jersey st. to E. L. of Jersey st.....	28		4-inch pipe taken out.
6	E.....	Jersey	" S. L. of Bridge st. to 8 feet N. of Lorain st. to connect.....	625		
6	E.....	Jersey	" pipe in Jay st. to N. L. of Bridge st.....	294		
6	N.....	Kennedy	" end of pipe 578 feet E. of Bolton ave. east.....	15		
6	E.....	Kentucky	" N. L. of Bridge st. to pipe in Woodbine st.....	645		
			<i>Forward.</i>			

LOW SERVICE DISTRICT.—Schedule Showing the Extension of Water Pipe in 1898—Continued.

Size.	Side.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
			<i>Forward.</i>			
6	S.....	Laird.....	From pipe in Wellington ave. to pipe in Bazetta st.....	674	.....	3-inch pipe taken out.
6	E.....	Landon.....	" pipe in Detroit st. south.....	40	.....	{ 4-inch pipe and 6-inch pipe abandoned.
6	N.....	Lane.....	" pipe in Commercial st. to Canal st.....	386	.....	{ 36 feet of 4-inch pipe aban- doned.
6	N.....	Leading.....	" 12-inch pipe in Rhodes ave. east.....	13	.....
6	S.....	Leavitt alley.....	" end of pipe 338½ feet W. of North East ave. west.....	52	.....
6	E.....	Lowell.....	" pipe in Detroit st. to pipe in Franklin ave.	717	.....	{ 4-inch pipe and 3-inch pipe abandoned.
6	S.....	Mason.....	" pipe in Wellington ave. to pipe in Bazetta st.....	672	.....	{ 3-inch pipe taken out and abandoned.
6	N.....	Mandrake.....	" W. L. of Water st. west.....	334	.....	4-inch pipe taken out.
6	N.....	Mapledale.....	" 12-inch pipe in Rhodes ave. east.....	13	.....
6	E.....	Meos.....	" pipe in Detroit st. north.....	50	.....	4-inch pipe taken out.
6	W.....	Melvin.....	" end of pipe 488 feet N. of Orville st. north.....	100	.....
6	W.....	Merchants.....	" 6-inch pipe in Clark ave. north.....	40	.....
6	W.....	Minerva.....	" pipe in Stanley ave. south to connect.....	188	.....
6	E.....	Mueller.....	" end of pipe 2 ft. S. of W. Madison ave. to 198 ft. S. of Oudell st.....	1,314	.....
6	S.....	Myron.....	" pipe in Woolsey st. to pipe in Hodge ave.....	984	.....
			<i>Forward.</i>			

LOW SERVICE DISTRICT.—Schedule Showing the Extension of Water Pipe in 1898—Continued.

Size.	Side.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
			<i>Forward</i>			
6	S.....	Nevada.....	From end of pipe 133 feet W. of Oakdale st. to pipe in Oakdale st....	155		
6	W.....	Norwood.....	" 2 feet N. of Superior st. north to connect.....	231		
6	W.....	Norwood.....	" S. L. St. Clair st. to pipe in Glass st.....	350		
6	W.....	Noyes.....	" N. L. of Clark ave. to pipe in Rowley st.....	479		
6	W.....	Oakdale.....	" pipe in Nevada st. north.....	159		
6	W.....	Parkwood.....	" pipe in Churchhill st. to pipe in Eastlake st.....	259		
6	E.....	Penn.....	" end of pipe 10 feet S. of Bridge st. to N. L. of Lorain st. to } connect.....	576		
6	E.....	Penn.....	" pipe in Lorain st. to pipe in Monroe st.....	1,286		{ 4-inch pipe taken out and abandoned.
6	E.....	Perun.....	" end of pipe 1¼ feet S. of Croton st. south.....	12		
6	S.....	Platt.....	" pipe in Edwards st. to pipe in Lincoln ave.....	399		
6		Pleasant.....	" 10-in. pipe to 6-in. pipe in Pleasant st. at 691 ft. S. of Clark ave.	21		
6	E.....	Prim.....	" pipe in Stock st. south.....	1,231		
6	N.....	Proposed.....	" 12-inch pipe in Rhodes ave. east.....	13		
6	N.....	Reible.....	" 12-inch pipe in Rhodes ave. east.....	13		
6	N.....	Sagamore.....	" pipe in E. Madison ave. to pipe in Ingleside ave.....	787		
			<i>Forward</i>			

WATER WORKS.

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LOW SERVICE DISTRICT.—Schedule Showing the Extension of Water Pipe in 1898—Continued.

Size.	Side.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
			<i>Forward</i>			
6	E.....	Seedle.....	From pipe in Wade Park ave. north to connect.....	240		
6	N.....	Smith.....	" 12-inch pipe in Rhodes ave. east.....	13		
6	W.....	Smithfield.....	" pipe in Goodwalt st. south to connect.....	8		
6	N.....	St. Clair.....	" pipe in Ansel ave. to 23½ feet W. of E. L. of Bratenahl ave.....	1,414		{ Acquired by annexation of Glenville. Acquired by annexation of Glenville.
6	S.....	St. Clair.....	" pipe in Ansel ave. to 28 feet W. of E. L. of Bratenahl ave.....	1,418		
6	N.....	Stone.....	" end of pipe 178 feet E. of Gaskell st. east.....	287		
6	E.....	Stoneman.....	" pipe in Kinsman st. south.....	24		
6	W.....	Streator.....	" pipe in Quebec st. to 8-inch pipe in Quincy st.....	324		
6	S.....	Temple.....	" pipe in Homewood st. west to connect.....	80		
6	E.....	Tod.....	" 5 feet S. of N. L. Healey st. to Omond st.....	136		
6	W.....	Waterson.....	" pipe in Detroit st. to 11 feet S. of W. Clinton st.....	416		21 ft. of 4-inch pipe taken out.
6	W.....	Weimer.....	" pipe in Fleet st. to pipe in Healey st.....	1,638		
6	S.....	W. Clinton..	" pipe in Waterson st. east to connect.....	432		
6	W.....	W. Jackson..	" pipe in Detroit st. to north line.....	50		4-inch pipe taken out.
6	E.....	Wheelock.....	" S. 6-inch pipe in St. Clair st. to 12 feet S. of N. L. of Crumb st.....	1,406		{ Acquired by annexation from Glenville.
			<i>Forward</i>			

LOW SERVICE DISTRICT.—Schedule Showing the Extension of Water Pipe in 1898—Continued.

Size.	Side.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
			<i>Forward</i>			
6	N and S	Willard.....	From pipe in Wellington ave. to 12 feet E. of W. L. of Dan st.....	1,607		{ 4-inch pipe taken out and abandoned.
6	E.....	Willet.....	" pipe in Monroe st. south.....	41		
6	N.....	Woodbridge.....	" 6-inch pipe in Rhodes ave. west.....	479		
6	N.....	Woodbridge.....	" 8-inch pipe in Willson ave. east.....	32		
6	E.....	York.....	" pipe in Monroe st. south.....	46		
6		For hydrants.....		72	46,392	
4	E.....	Basetta.....	From 2 feet N. of Willard st. north.....	144		{ Acquired by annexation in 1894, but not reported.
4	S.....	Dorothy Place.....	" pipe in Willson ave. east.....	250		
4	N.....	Fair Court.....	" pipe in Dunham ave. east.....	481		
4	S.....	Fountain Alley.....	" end of pipe 98 feet E. of Seneca st. to W. L. of Bright st.	102		
4	N.....	Fountain Alley.....	" E. L. of Bright st. to W. L. of Ontario st.....	266		
4	N.....	Hancock Alley.....	" pipe in Jersey st. east.....	27		
4	N.....	Hancock Alley.....	" pipe in Penn st. west.....	40		
4	N.....	Keene Alley.....	" pipe in Jersey st. east.....	27		
			<i>Forward</i>			

LOW SERVICE DISTRICT.—Schedule Showing the Extension of Water Pipe in 1898—Concluded.

WATER WORKS.

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Size.	Side.	Street.	Between What Points.	Feet Laid.	Total.	Remarks.
			<i>Forward</i>			
4	W.....	Krupp Alley.....	From pipe in Monroe st, north	27		{ 4-inch pipe and 6-inch pipe abandoned. { 4-inch pipe and 6-inch pipe abandoned.
4	N. ...	Riverside.....	" 12-inch pipe in Rhodes ave. east.....	13		
4	S.....	Riverside.....	" 12-inch pipe in Rhodes ave. east.....	13		
4	N.....	Sheppard.....	" pipe in Ware st. west.....	297		
4	E.....	Snow.....	" end of pipe 254 feet S. of E. Clark ave. south.....	88		
4	E and N	State Alley.....	" pipe in Monroe st. south and west.....	260		
4	.....	For hydrants.....	.....	1,824	3,859	
			Total number of feet of all sizes.....		71,569	

LOW SERVICE DISTRICT.—SCHEDULE OF PIPE TAKEN OUT AND ABANDONED IN 1898.

Size Taken Out or Relaid. Aban- doned.	Street.	Between What Points.	Feet.	Total.	Remarks.
24	Fair View Park.....	{ From a point 43 feet E. of Kentucky st. and 12 feet N. of S. L. Franklin ave. south..... }	330	330	Taken out and abandoned.
20	Fair View Park.....	{ From a point 182 feet E. of Kentucky st. and 8 feet N. of S. L. Franklin ave. south..... }	307		Taken out and abandoned.
20	Fair View Park.....	{ " a point 320 feet E. of Kentucky st. and 7 feet N. of S. L. Franklin ave. south..... }	330	637	Taken out and abandoned.
16	Franklin ave.....	From a point 120 feet E. of Kentucky st. east.....	115	115	Abandoned.
8	Fair View Park.....	From south line Franklin ave. south.....	350		
8	Gordon..	" north line Detroit st. north.....	1,869	2,219	Taken out and abandoned.
6	Arlwood.....	From 6-inch pipe to 12-inch pipe in Rhodes ave.....	18		Taken out.
6	Deering.....	" 19 feet E. of W. L. Mariner st. east.....	84		Abandoned.
6	Dennison	" 6 inch pipe in Rhodes ave. east.....	34		{ Taken out in 1896, but not re ported.
6	Detroit	" pipe in Lowell st. to 169 feet W. of Wellington st.	2,578		Taken out.
6	Landon.....	" S. L. Detroit st. south.....	21		Abandoned.
6	Rhodes.....	" pipe in Bush ave. south.....	34		Abandoned.
		Forward.....			

LOW SERVICE DISTRICT.—Schedule of Pipe Taken Out and Abandoned in 1898—Continued.

Size Taken Out or Abandoned.	Size Relaid.	Street.	Between What Points.	Feet.	Total.	Remarks.
			<i>Forward.</i>			
6	12	Rhodes.....	From 6-inch pipe in Dennison ave. north.....	21	.....	{ Taken out in 1896, but not re-ported. Taken out in 1896, but not re-ported.
6		Riverside.....	" 6-inch pipe in Rhodes ave. east.....	22	.....
					2,312	
4	8	Alabama.....	From 334 feet north of Lake st. north.....	127	.....	Taken out.
4	8	Bank.....	" N. L. Lake st. north.....	302	.....	Taken out and abandoned.
4	8	Columbus.....	" pipe in Brevier st. south.....	160	.....	Taken out.
4	6	Davis.....	" pipe in W. Madison ave. to pipe in Willard st.....	2,173	.....	Taken out and abandoned.
4	6	Elliott.....	" S. L. of Lake ave. to pipe in Detroit st.....	1,208	.....	Taken out and abandoned.
4	6	Franklin.....	" pipe in Columbus st. to W. L.....	24	.....	Taken out.
4	6	Halstead.....	" pipe in Detroit st. to N. L.....	50	.....	Taken out.
4		Herman.....	At Gordon ave.....	14	.....	Taken out.
4	6	Herrick.....	From pipe in Detroit st. to N. L.....	50	.....	Taken out.
4	6	Jay.....	" pipe in Jersey st. to E. L.....	26	.....	Taken out.
4	6	Landon.....	" pipe in Detroit st. south.....	20	.....	Abandoned.
4	6	Lane.....	" pipe in Commercial st. east.....	35	.....	Abandoned.
			<i>Forward.</i>			

LOW SERVICE DISTRICT.—Schedule of Pipe Taken Out and Abandoned in 1898—Continued.

Size Taken Out or Abandoned.	Size Relaid.	Street.	Between What Points.	Feet.	Total.	Remarks.
			<i>Forward.</i>			
4	6	Lowell.....	From pipe in Detroit st. to S. L.....	21	.....	Taken out.
4	6	Mandrake	" W. L. Water st. west.....	334	.....	Taken out and abandoned.
4	6	Mecca	" pipe in Detroit st. to N. L.	45	.....	Taken out.
4	6	Penn.....	" pipe in Lorain st. to pipe in Monroe st.....	1,286	.....	Taken out and abandoned.
4	10	Pleasant	" 10-inch pipe in Clark ave. south.....	730	.....	Abandoned.
4	4	Riverside.....	" E. L. Rhodes ave. west.....	48	.....	Abandoned.
4	6	Ursula.....	" pipe in Willard st. south.....	447	.....	Taken out and abandoned.
4	6	Watterson	" pipe in Detroit st. to S. L.....	21	.....	Taken out.
4	8	Wellington.....	" pipe in W. Madison to the south pipe in Willard st.....	2,167	.....	Taken out and abandoned.
4	6	W. Jackson.....	" pipe in Detroit st. to N. L.....	50	.....	Taken out.
4	6	Willard.....	" pipe in Davis ave. to 8 feet E. of W. L. Dan st.....	611	.....	Taken out and abandoned.
4	.....	{ 4 inch taken out } { with hydrants. }	.....	132	10,081	
3 W. I.	6	Cudell	From pipe in Wellington ave. west.....	546	.....	{ Now called a service connection.
3 W. I.	6	Goulder.	" pipe in Macon st. to pipe in Laird st.....	800	.....	{ Now called a service connection.
			<i>Forward.</i>			

LOW SERVICE DISTRICT.—Schedule of Pipe Taken Out and Abandoned in 1898—Concluded.

Size Taken Out or Aban- doned.	Size Relaid.	Dist.	Between What Points.	Feet.	Total.	Remarks.
			<i>Forward.</i>			
3 W. I.	6	Laird.....	From pipe in Wellington ave. to pipe in Goulder st.....	337		{ Now called a service connection.
3 W. I.	6	Lowell.....	" S. L. Detroit st. south.....	680		
3 W. I.	6	Macon.....	" S. L. Wellington ave. to pipe in Goulder st.	337		{ Now called a service connection.
3		{ 3-inch taken out { with hydrants.. }	.....	72	2,772	
			Total number of feet of all sizes.....		18,966	

SCHEDULE SHOWING THE LOCATION OF WATER PIPE CHANGED FROM LOW SERVICE
DISTRICT TO HIGH SERVICE DISTRICT IN 1898.

Size.	Side.	Street.	Between What Points.	Feet.	Total.	Remarks.
8	N	Lorain	From E. L. Yonker st. to W. L. S. Mueller st.	2,272		
8	E . . .	Ridge.....	" 64½ S. of Anthony st. to pipe in Barry st.....	1,118		
8	E	Wellington	" S. L. Lorain st. to N. L. Lorain st.	80	3,470	
6	E	Bazetta	From pipe in Lorain street north	20		
6	S	Berry	" 8-inch pipe in Ridge ave. west	692		
6	E	Coit	" pipe in Lorain st. south.....	600		
6	E	Davis.....	" pipe in Lorain st. to pipe in Willard st.	791		
6	S	Dearborn	" 8-inch pipe in Ridge ave. east.....	22		
6	S	Fisk	" 8-inch pipe in Ridge ave. west	38		
6	W	Milford	" S. L. of Storer ave. to 9 feet north of Evans st.	1,179		
6	E	Minton	" pipe in Lorain st. south.....	1,063		
6	S	Neville	" pipe in Ridge ave. west.....	789		
6	E	Norton	" pipe in Lorain st. south	799		
6	E	President	" S. L. of Storer ave. south.....	1,460		
6	S	Rayner	" pipe in Ridge ave. west.....	723		
			Forward			

SCHEDULE SHOWING THE LOCATION OF WATER PIPE CHANGED FROM LOW SERVICE
DISTRICT TO HIGH SERVICE DISTRICT IN 1898.—Continued.

Size.	Side.	Street.	Between What Points.	Feet.	Total.	Remarks.
			<i>Forward</i>			
6	W	Rhodes	From S. L. of Bush ave. to N. L. of Dennison ave	2,055		
6	E	Richard	" pipe in Lorain st. north	720		
6	E	Sage	" pipe in Lorain st. to S. L.	46		
6	S	Shaw	" pipe in Ridge ave. east	26		
6	E	S. Mueller	" pipe in Lorain st. north	880		
6	S	Wentworth	" pipe in Ridge ave. east	400		
6	S	Willard	" from pipe in Davis ave. to pipe in Wellington ave	988		
6	E	Yonker	" pipe in Lorain st. to S. L.	43	13,264	
4	W	Gauge	From 158 feet south of Hodgson st. to 116 ft. north of Hodgson st....	326		
4	N	Hodgson	" 6-inch pipe in Rhodes ave. to pipe in Gauge st.	718		
4	S	Shaw	" 4 feet east of Ridge ave. east	415		
4	N	Thomas court	" 6-inch pipe in Rhodes ave. west	25		
4	E	Wellington	" pipe in Willard st. south	604		
		With Hydranta..	<i>Forward</i>	648	2,798	

SCHEDULE SHOWING THE LOCATION OF WATER PIPE CHANGED FROM LOW SERVICE
DISTRICT TO HIGH SERVICE DISTRICT IN 1898.—Concluded.

Size.	Side.	Street.	Between What Points.	Feet.	Total.	Remarks.
3	N.....	Thomas court	<i>Forward</i>			
			From 6 feet west of Rhodes ave. west.....	458	458	
			Total.....		19,925	

SCHEDULE SHOWING THE LOCATION OF WATER PIPE CHANGED FROM HIGH SERVICE
DISTRICT TO LOW SERVICE DISTRICT IN 1898.

Size.	Side.	Street.	Between What Points.	Feet.	Total.	Remarks.
12	N.....	Dennison	From 18 feet west of E. L. of Rhodes ave. east	21	21	
8	S.....	Morgan.....	From pipe in Troy st. to E. L. Maplewood st.....	1,099	1,099	
6	S.....	Temple	From pipe in Troy st. east	528		
6	W....	Troy	" pipe in Morgan ave. to pipe in Temple st.....	204	733	
4		With Hydrants.....		72	72	
			Total		1,924	

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Total Feet of Pipe in Use December 31st, 1898.

[illegible]

LOW SERVICE DISTRICT.

Increased Mileage of Pipe During the Year 1898.

48-inch pipe	0 miles	3,057 feet.	
42 " "	0 "	114 "	
36 " "	0 "	50 "	
	0 "	3,221 "	
24-inch pipe decreased 330 feet.			
20 " " " 637 "			
16 " " " 115 "	0 miles	1,082 feet.	
Total gain.....	0 "	2,139 "	of supply mains.
12-inch pipe	0 miles	2,352 feet.	
10 " "	0 "	4,936 "	
8 " "	1 "	480 "	
6 " "	5 "	4,648 "	
	8 "	2,356 "	
4-inch pipe decreased 8,836 feet.			
3 " " " 3,230 "	2 miles	1,556 feet.	
Total gain.....	6 "	800 "	of distributing mains.

6 miles 2,939 feet net increase of pipe laid in Low Service District in 1898.

HIGH SERVICE DISTRICT.—SCHEDULE SHOWING THE EXTENSION OF WATER PIPE IN 1898.

Size.	Side.	Street.	Between what Points.	Feet Laid.	Total.	Remarks.
12	E.....	Ridge.....	From pipe in Berry st. south to connect.....	425		
12	W.....	Ridge.....	{ " 20 feet S. of 12-inch pipe in Dennison ave. to 97 feet S. of " angle at entrance to W. Park cemetery..... }	4,766	5,191	
10	E.....	Atlantic.....	From 8 feet S. of Kinsman st. south.....	188		
10	S.....	Harvard.....	" 7 feet W. of Vistula St. to pipe in Greenleaf st.....	589		
10	N.....	Harvard.....	" 12 feet W. of Warwick st. to 88 feet W. of Railway st.....	316		
10	W.....	Turney.....	" end of pipe 61 feet S. of Tioga st. to Grand Division ave.....	2,474	3,567	
8	W.....	Tod.....	From S. L. of Osmond st. to pipe in Osmond st.....	18		
8	W.....	Warwick.....	" 16 feet S. of Harvard st. to 12 feet S. of Belfast st.....	983	1,001	
6	E.....	Alpine.....	From pipe in Holton ave. south.....	830		
6	E.....	Ambler.....	" pipe in Holton ave. north to connect.....	180		
6	S.....	Arey.....	" pipe in Brandon st. to W. L. of Murray Hill ave.....	407		
6	W.....	Brandon.....	" 12 feet S. of Cornell st. to pipe in Arey ave.....	712		
6	W.....	Brandon.....	" end of pipe 256 feet S. of Mayfield Rd. to 65 feet S. of Paul st.....	280		
			Forward.....			

HIGH SERVICE DISTRICT.—Schedule showing the Extension of Water Pipe in 1898.—Continued.

Size.	Side.	Street.	Between what Points.	Feet Laid.	Total.	Remarks.
			<i>Forward.</i>			
6	S	Bush	From 6-inch pipe in Rhodes ave. to pipe in Lapier st.	1,223		
6	S	Cambridge	" 10-inch pipe in Woodland Hills ave. west.	1,126		
6	W	Cowley	" pipe in Miles ave. south.	287		
6	N	Evans	" pipe in Lapier st. to pipe in Milford st.	252		
6	S	Force	" pipe in Turney ave. west.	217		
6	S	Force	" pipe in Warner road west.	747		
6	S	Goodman	" end of pipe 571 feet W. of Warner road west.	1,005		
6	W	Groton	" end of pipe 300 feet S. of Union st. to pipe in Kina st.	1,202		
6	S	Holton	" pipe in Ambler st. east.	280		
6	S	Laisy	" pipe in Upton st. east.	770		
6	W	Milford	" N. L. of Dennison ave. to 9 feet N. of Evans st. to connect.	1,955		
6	E	Minton	" N. L. of Dennison ave. N. to connect.	514		
6	S	Osage	" pipe in Fayette st. to pipe in Cottage st. to the south.	327		
6	S	Osmond	" pipe in Tod st. east.	399		
6	S	Pratt	" pipe in Ruggles st. east.	86		
6	E	President	" end of pipe 12 feet N. of Dennison ave. N. to connect.	194		
			<i>Forward.</i>			

WATER WORKS.

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HIGH SERVICE DISTRICT.—Schedule showing the Extension of Water Pipe in 1898.—Concluded.

Size.	Side.	Street.	Between what Points.	Feet Laid.	Total.	Remarks.
			<i>Forward.....</i>			
6	W & N	Radway.....	From 10-inch pipe in Harvard st. to pipe in Warwick st.....	1,042		
6	S	Rayner.....	" end of pipe 681 feet W. of Ridge ave. west.....	120		
6	E	Richard.....	" N. L. of Dennison ave. north.....	11		
6	E	Ritchie.....	" 8 feet N. of Dennison ave. to 12 feet N. of S. L. of Storers ave.....	1,505		
6	S	Third.....	" end of pipe 431 feet W. of Tod st. west.....	851		
6	W	Tyson.....	" pipe in Reno st. to S. L. of Way st.....	251		
6	E	Ursula.....	" N. L. of Lorain st. to pipe in Willard st.....	629		{ 4-inch pipe taken out and abandoned.
6	S	Willard.....	" pipe in Davis ave. to pipe in Ursula st.....	312		{ 4-inch pipe taken out and abandoned.
6	E	Wyoming.....	" 10 feet N. of Dennison ave. to Evans st.....	1,898	19,409	
4	S	Leroy.....	From pipe in Alpine st. east to connect.....	16		
4		For hydrants.....		862	866	
			Total number of feet of all sizes.....		30,086	

HIGH SERVICE DISTRICT.

Increased Mileage of Pipe During the Year 1898.

No increase of Supply Mains.		
12-inch pipe	0 miles	5,170 feet
10 " "	0 "	3,567 "
8 " "	0 "	3,372 "
6 " "	6 "	261 "
4 " "	0 "	3,582 "
3 " "	0 "	458 "
Total gain.....	9 "	520 feet of distributing mains.

RECAPITULATION.

Total pipe laid in low service district.....	13 miles	2,949 feet.
Total pipe laid in high service district.....	5 "	3,636 "
Total laid in both.....	19	1,805 "
PIPE TAKEN OUT AND ABANDONED.		
In low service district.....	3 miles	3,126 feet.
Net increase in both districts.....	15 miles	3,459 feet.

TOTAL MILEAGE OF PIPE IN USE IN HIGH AND LOW SERVICE DISTRICTS.

Diameter of Pipe. Inches.	Low Service District.		High Service District.		Both Districts.		
	Miles.	Feet.	Miles.	Feet.	Miles.	Feet.	
48.....		4,521				4,521	{ 59 miles 3,418 feet of supply mains.
42.....	3	1,662			3	1,662	
36.....	12	4,408			12	4,408	
30.....	13	1,914	5	1,489	18	3,403	
24.....	2	1,497	3	4,992	6	1,209	
20.....	2	767	1	944	3	1,711	
16.....	13	1,067	1	1,262	14	2,349	
12.....	9	3,345	6	3,395	16	1,460	
10.....	24	393	9	4,417	33	4,810	
8.....	71	4,575	7	4,182	79	3,477	
6.....	243	2,005	38	827	281	2,832	
4.....	38	2,416	3	483	41	2,899	
3.....	2	4,641		458	2	5,099	
Total.....	438	1,546	77	1,329	515	2,875	{ 456 miles 4,737 feet of distributing mains.

LOW SERVICE DISTRICT—SCHEDULE SHOWING THE LOCATION OF FIRE
HYDRANTS SET IN 1898.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4	W	Aaron	209	S. of St. Clair st.	
1	4	E	Alger	278	S. of Hermann st.	
1	4	E	Alger	608	S. of Hermann st.	
1	4	E	Ansel	61	N. of Wade Park ave.	
1	6	W	Bank	316	N. of Lake st.	
1	4	W	Billings	192	S. of Euclid ave.	
1	4	W	Billings	266	N. of E. Prospect st.	
1	4	S	Bonna	322	W. of E. Madison ave.	
1	4	S	Bower		At Expo st.	
1	4	W	Bratenahl	313	N. of St. Clair st.	
1	4	W	Bratenahl	637	N. of St. Clair st.	
1	4	N	Brevier	262	E. of Columbus st.	
1	4	W	Broadway	30	S. of Angle at Liberal st.	
1	4	W	Burns		At Fairfield st.	
1	4	W	Burns	479	S. of Fairfield st.	
1	4	N	Canal	12	E. of Harrison st.	
					Forward	

LOW SERVICE DISTRICT.—Schedule Showing the Location of Fire Hydrants Set in 1898.—Continued.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4	W.	Carabell.	347	Forward.....	
1	4	E.	Case	128	S. of Euclid ave.....	
C1	3 to 4	E.	Case	66	N. of Sibley st.....	
1	6	E.	Case	10	S. of Sibley st.....	
1	4	E.	Case	284	N. of Cedar ave.....	
C1	3 to 4	E.	Case	573	S. of Cedar ave.....	
1	4	E.	Case	249	N. of Central ave.....	
1	4	E.	Case	26½	N. of Central ave.....	
1	4	E.	Case	10	N. of Mason Lane	
1	4	E.	Case	288	N. of Berkley st.....	
1	4	E.	Cemetery	703	N. of Woodland ave.....	
1	4	W.	Chandler	12	N. of Donald st.....	
1	4	N.	Chatham	34	W. of McLean st.....	
1	4	S.	Churchill	311	E. of Almira st.....	
1	4	S.	Churchill		W. of Parkwood st.....	
1	4	S.	Churchill		At Parkwood st.....	
1	4	N.	Clark	80	E. of Gauge st.....	
					Forward.....	

LOW SERVICE DISTRICT.—Schedule Showing the Location of Fire Hydrants Set in 1898.—Continued.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4	S.....	Cudell.....	248	<i>Forward</i>	
1	4	E.....	Davis.....	210	W. of Wellington st.....	
1	4	E.....	Davis.....	511	S. of W. Madison ave.....	
1	4	E.....	Davis.....	825	S. of W. Madison ave.....	
1	4	E.....	Davis.....	955½	S. of W. Madison ave.....	
1	4	E.....	Davis.....	631½	N. of Willard st.....	
1	4	E.....	Davis.....	308½	N. of Willard st.....	
1	4	S.....	Detroit.....	124	N. of Willard st.....	
1	4	S.....	Detroit.....	110	W. of Herrick st.....	
1	4	S.....	Division.....		W. of W. Jackson st.....	
1	4		Division Street Station Grounds.....		At W. L. Water Works Lot.....	
1	4		Division Street Station Grounds.....		At N. E. corner of Building for Allis Pump.....	
1	4		Division Street Station Grounds.....		At S. E. corner of Building for Allis Pump.....	
1	4		Division Street Station Grounds.....		At S. W. corner of Geary Boiler House.....	
1	4		Division Street Station Grounds.....		At 131 ft. N. of S. L. of Geary Boiler House.....	
1	4	S.....	Dorothy Place.....	196	E. of Willson ave.....	
1	4	E.....	Duane.....	309	S. of Franklin ave.....	
1	4				<i>Forward</i>	

LOW SERVICE DISTRICT.—Schedule Showing the Location of Fire Hydrants Set in 1898.—Continued.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
					<i>Forward</i>	
1	4	E.....	Duane.....	247	N. of Woodbine st.....	
1	4	S.....	Eastlake.....	182	E. of Adrian st.....	
1	4	S.....	Eastlake.....	10¼	W. of Almira st.....	
1	4	S.....	Eastlake.....	302	E. of Almira st.....	
1	4	S.....	Eastlake.....		At Parkwood st.....	
1	4	E.....	E. Madison.....	106	S. of Woodland ave.....	
1	4	E.....	E. Madison.....	710	S. of Woodland ave.....	
1	4	S.....	Edna.....	118	E. of Dana street.....	
1	4	W.....	Elliott.....	245	N. of Detroit st.....	
1	4	W.....	Elliott.....	226	S. of Lake ave.....	
1	4	N.....	Fair Court.....	457	E. of Dunham ave.....	
1	4	S.....	Fir.....	188	W. of Waverly ave.....	
1	4	S.....	Fir.....	452	W. of Waverly ave.....	
1	4	S.....	Fir.....	240	E. of Gordon ave.....	
1	4	E.....	Florence.....		At Scovill ave.....	
1	4	E.....	Foots.....	280	S. of Grand ave.....	
					<i>Forward</i>	

LOW SERVICE DISTRICT.—Schedule Showing the Location of Fire Hydrants Set in 1898.—Continued.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4	W.....	Fountain.....	355	<i>Forward</i>	
1	4	W.....	Fountain.....	12	N. of Clark ave.....	
1	4	S.....	Fountain Alley	35	S. of Train st.....	
1	4	E.....	Garretson.....		E. of Bright st.....	
1	4	E.....	Garretson.....	316.	At Fort st.....	
1	4	S.....	Goodwalt.....		S. of Fort st.....	
1	4	S.....	Goodwalt.....	133	At Salisbury ave.....	
1	4	E.....	Goulder.....	373	W. of Pembroke st.....	
1	4	N.....	Hamilton.....	251	S. of Laird st.....	
1	4	S.....	Hamilton.....	192	E. of Lawrence st.....	
1	4	S.....	Hamilton.....	420	E. of Kirtland st.....	
1	4	S.....	Hamilton.....	159	W. of Coe st.....	
1	4	S.....	Hamilton.....	192	W. of Coe st.....	
1	4	S.....	Hamilton.....	448	E. of Coe st.....	
1	4	E.....	Helen.....	360	E. of Coe st.....	
1	4	N.....	Harley.....	170	S. of Western ave.....	
					E. of Bridgeview ave.....	
					<i>Forward</i>	

LOW SERVICE DISTRICT.—Schedule Showing the Location of Fire Hydrants Set in 1898.—Continued.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4	N.....	Hurley	454	<i>Forward</i>	
1	4	E.....	Jersey		E. of Bridgeview ave.....	
1	4	E.....	Jersey		At Jay st.....	
1	4	E.....	Jersey		At Carrol st.....	
1	4	E.....	Jersey	15	N. of Lorain st.....	
1	4	N.....	Laird		At Goulder st.....	
1	4	S.....	Laird		At Bazetta st.....	
1	4	N.....	Lane	20	E. of Commercial st.....	
1	4	S.....	Lane		At Canal st.....	
1	4	E.....	Lowell	90	S. of Detroit st.....	
1	4	E.....	Lowell	282	N. of Franklin ave.....	
1	4	S.....	Macon	30	W. of Goulder st.....	
1	4	S.....	Macon		At Bazetta st.....	
1	6	S.....	Mand'ake	21	W. of Water st.....	
Cl	3 to 6	N.....	Mand'ake	334	W. of Water st.....	
1	4	E.....	Montro-e.	16½	S. of Wade Park ave.....	
1	4	E.....	Mueller.....	281	S. of W. Madison ave.....	
					<i>Forward</i>	

LOW SERVICE DISTRICT. — Schedule Showing the Location of Fire Hydrants Set in 1898 — Continued.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4	E.....	Mueller.....	134	<i>Forward</i>	
1	4	E.....	Mueller.....	116	N. of Asmus st.....	
1	4	E.....	Mueller.....	198	N. of Cudell st.....	
1	4	S.....	Myron.....	241	S. of Cudell st.....	
1	4	S.....	Myron.....	387½	E. of Hodge st.....	
1	4	S.....	Myron.....	98½	W. of Woolsey st.....	
1	4	W.....	Noyes.....	159	W. of Woolsey st.....	
1	4	W.....	Oakdale.....	126	N. of Rowley st.....	
1	4	E.....	Oliver.....	229	N. of Nevada st.....	
1	4	E.....	Oliver.....	247	S. of Superior st.....	
1	4	E.....	Oliver.....	209	N. of Payne ave.....	
1	4	E.....	Oliver.....	327	S. of Payne ave.....	
1	4	E.....	Oliver.....	.....	N. of E. Chestnut st.....	
1	4	E.....	Oliver.....	.....	At E. Chestnut st.....	
1	4	E.....	Oliver.....	223	S. of E. Chestnut st.....	
1	4	E.....	Oliver.....	182	N. of Euclid ave.....	
1	6	W.....	Pearl.....	620½	S. of Bradwell st.....	
					<i>Forward</i>	

LOW SERVICE DISTRICT.—Schedule Showing the Location of Fire Hydrants Set in 1898.—Continued.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4	E.....	Penn.....	160	<i>Forward</i>	
1	4	E.....	Penn.....	16	N. of Loain st.....	
Cl	3 to 4	E.....	Penn.....		N. of Chatham st.....	
1	4	W.....	Penn.....	12	At Monroe st.....	
1	4	W.....	Pleasant.....	541	S. of Clark ave.....	
1	4	E.....	Pleasant.....	128	S. of Clark ave	
1	4	E.....	Prim.....	187	N. of Frontier st.....	
1	4	E.....	Prim.....	524	S. of Frontier st.....	
1	4	E.....	Prim.....	913	S. of Frontier st.....	
1	6	S.....	Prospect.....	13½	E. of Perry st.....	
1	4	N.....	Quincy.....	198	E. of Streator ave.....	
1	4	N.....	Quincy.....	296	W. of Dean st.....	
1	4	E.....	Rhodes.....		At Reible st.....	
1	4	E.....	Rhodes.....	120	N. of Arnold st.....	
1	4	E.....	Rhodes.....		At Smith st.....	
1	4	W.....	Ridge.....	59	S. of Anthony st.....	
					<i>Forward</i>	

LOW SERVICE DISTRICT.—Schedule Showing the Location of Fire Hydrants Set in 1898.—Continued.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4	N.	Sagamore.....	179	Forward.....	
1	4	N.	Sagamore.....	232	E. of Ingleside ave.....	
1	4	W	Sagamore.....	250	W. of E. Madison ave.....	
1	4	N.	Soranton.....	280	S. of N. L. Girard st.....	
1	4	N.	Sheppard.....	365	W. of Ware st.....	
1	4	N.	St. Clair.....	90	E. of Ansel ave.....	Acquired by annexation.
1	4	N.	State Alley.....		W. of Angle in Alley.....	
1	4	N.	Stowe.....		At St. Paul st.....	
1	4	E.	Tod.....		At Osmond st.....	
1	4	S.	Wade Park ave.....	280	W. of Boulevard.....	
1	4	S.	Wade Park ave.....	130	W. of Dunham ave.....	
1	4	N.	Wade Park ave.....	124	E. of Beaumont st.....	
1	4	S.	Wade Park ave.....	181½	W. of Giddings ave.....	
1	4	E.	Washington.....		At Center st.....	Set in 1897 but not reported.
1	4	W.	Watterson.....	169	S. of Detroit st.....	
1	4	W.	Watterson.....	11	S. of W. Clinton st.....	
1	4	W.	Weimer.....	283	S. of Heisley st.....	
					Forward.....	

LOW SERVICE DISTRICT.—Schedule Showing the Location of Fire Hydrants Set in 1898.—Concluded.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4	W	Weimer.....	586	<i>Forward.....</i>	
1	4	W	Weimer.....	605	S. of Heisley street.....	
1	4	W	Weimer.....	286	N. of Fleet street.....	
1	4	E	Wellington.....		N. of Fleet street.....	
1	4	E	Wellington.....		At Lander street.....	
1	4	E	Wellington.....		At Laird street.....	
1	4	E	Wellington.....	121	S. of Cudell street.....	
1	4	E	Wellington.....	120	S. of Zimmer street.....	
1	4	E	Wellington.....	77½	S. of Macon street.....	
1	4	E	Wheelock.....	33	N. of Crumb street.....	Acquired by annexation.
1	4	W	Willson.....	244	S. of Armitage street.....	
1	4	W	Willson.....	420	N. of Carry street.....	
1	4	N	Woodbridge.....	197	W. of Rhodes avenue.....	
1	4	N	Woodbridge.....		At Burton street.....	
1	4	E	York.....	8	S. of Monroe street.....	
158			Total hydrants set in 1898.			

Of these 6 are 6-inch hydrants, the balance 4-inch hydrants.

WATER WORKS.

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LOW SERVICE DISTRICT.—SCHEDULE SHOWING HYDRANTS TAKEN OUT IN 1898.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	3	E.....	Case.....	66	S. of Sibley street.....	
1	3	W.....	Case.....	120	S. of Cedar avenue.....	
1	3	E.....	Case.....	573	N. of Central avenue.....	
1	3	S.....	Center.....		At Washington street.....	
1	4	E.....	Davis.....	1334	S. of W. Madison avenue.....	
1	4	S.....	Deering.....	49	E. of Mariner street.....	
1	4	S.....	Deering.....		At Mariner street.....	Branch and valve left in.
1	4	W.....	Doan.....		At Quincy street.....	
1	4	N.....	Fairmount Pl.....	353	W. of Fairmount street.....	
1	4	W.....	Goulder.....	121	S. of Laird st.....	
1	4	W.....	Goulder.....	121	N. of Mason street.....	
1	3	N.....	Mandrake.....	334	W. of Water street.....	
1	4	W.....	Mueller.....		At Cudell street.....	
					Forward.....	

LOW SERVICE DISTRICT. —Schedule Showing Hydrants Taken Out in 1898.—Concluded.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	3	E.....	Penn.....	.....	<i>Forward.</i>	
1	4	S.....	Wade Park avenue.....	50	At Monroe street.....	
1	4	E.....	Wellington.....	.....	W. of Genesee avenue.....	
1	4	E.....	Wellington.....	155½	At Asmus street.....	
17			Total hydrants taken out.		N. of Mason street.....	

Of these 11 are 4-inch hydrants, the balance are 3-inch.

SCHEDULE SHOWING THE LOCATION OF FIRE HYDRANTS CHANGED FROM LOW SERVICE
DISTRICT TO HIGH SERVICE DISTRICT IN 1898.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4	S	Berry.....	307	W. of Ridge avenue.....	
1	4	S	Berry.....	650	W. of Ridge avenue.....	
1	4	E	Coit.....	240½	S. of Lorain street.....	
1	4	E	Coit.....	546	S. of Lorain street.....	
1	4	E	Davis avenue.....	366	N. of Lorain street.....	
1	4	N	Hodgson.....	224½	E. of Gauge street.....	
1	4	N	Lorain.....		At Sage street.....	
1	4	N	Lorain.....		At Norton street.....	
1	4	N	Lorain.....	286	W. of Norton street.....	
1	4	N	Lorain.....		At Richard street.....	
1	4	N	Lorain.....		At S. Mueller avenue.....	
1	4	W	Milford.....	223	S. of Storer avenue.....	
1	4	W	Milford.....		At Gennett avenue.....	
1	4	W	Milford.....	265	S. of Gennett avenue.....	
1	4	W	Milford.....		At Evans street.....	
1	4	E	Minton.....		At Lorain street.....	
					Forward.....	

SCHEDULE SHOWING THE LOCATION OF FIRE HYDRANTS CHANGED FROM LOW SERVICE
DISTRICT TO HIGH SERVICE DISTRICT IN 1898.—Continued.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4	E	Minton.....	383	<i>Forward</i> S. of Lorain street.....	
1	4	E	Minton.....	714	S. of Lorain street.....	
1	4	E	Minton.....	1004½	S. of Lorain street.....	
1	4	S	Neville.....	231	W. of Ridge avenue.....	
1	4	S	Neville.....	495	W. of Ridge avenue.....	
1	4	S	Neville.....	727	W. of Ridge avenue.....	
1	4	E	Norton.....	207	S. of Lorain street.....	
1	4	E	Norton.....	474	S. of Lorain street.....	
1	4	E	Norton.....	749	S. of Lorain street.....	
1	4	E	President.....	238	S. of Storer avenue.....	
1	4	E	President.....	540	S. of Storer avenue.....	
1	4	E	President.....	841	S. of Storer avenue.....	
1	4	E	President.....	530½	N. of Dennison avenue.....	
1	4	E	President.....	205½	N. of Dennison avenue.....	
1	4	S	Raynor.....	227	W. of Ridge avenue..... <i>Forward</i>	

SCHEDULE SHOWING THE LOCATION OF FIRE HYDRANTS CHANGED FROM LOW SERVICE DISTRICT TO HIGH SERVICE DISTRICT IN 1898.—Continued.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
					<i>Forward</i>	
1	4	S	Rayner.....	505	W. of Ridge avenue.....	
1	4	S	Rayner.....	681	W. of Ridge avenue	
1	4	W	Rhodes		At Leading street.. ..	
1	4	W	Rhodes	99	N. of Mapledale avenue.....	
1	4	W	Rhodes		At Archwood avenue.....	
1	4	E	Richard.....	350	N. of Lorain street.....	
1	4	E	Richard.....		At Minnie street.....	
1	4	E	Ridge.....		At Fisk street.....	
1	4	E	Ridge.....		At Rayner street.....	
1	4	E	Ridge.....		At Neville street.. ..	
1	4	E	Ridge.....		At Berry street.....	
1	4	N	Shaw.....	415	E. of Ridge avenue.....	
1	4	E	S. Mueller.....	349	N. of Lorain street.....	
1	4	E	S. Mueller.....		At Minnie street.	
1	4	N	Thomas Ct.....		At Rhodes avenue.....	
					<i>Forward</i>	

SCHEDULE SHOWING THE LOCATION OF FIRE HYDRANTS CHANGED FROM LOW SERVICE
DISTRICT TO HIGH SERVICE DISTRICT IN 1898.—Concluded.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4	E	Ursula.....	175	<i>Forward.....</i> N. of Lorain street.....	
1	4	E	Wellington.....	33	N. of Leo street.....	
1	4	E	Wellington.....		At Caroline street.....	
1	4	S	Wentworth.....	378	E. of Ridge avenue.....	
1	4	S	Willard.....	24	E. of Wellington avenue.....	
1	4	S	Willard.....	257	W. of Basetta street.....	
1	4	S	Willard.....		At Basetta street.....	
1	4	S	Willard.....		At Ursula street.....	
54			Total hydrants changed.			

SCHEDULE SHOWING THE LOCATION OF FIRE HYDRANTS CHANGED FROM HIGH SERVICE
DISTRICT TO LOW SERVICE DISTRICT IN 1898.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4	S	Morgan.....	252	E. of Homewood avenue.....	
1	4	S	Morgan.....		At Homewood avenue.....	
1	4	S	Morgan.....	107	E. of Troy street.....	
1	4	S	Temple.....	232	E. of Troy street.....	
1	4	S	Temple.....		At Homewood avenue.....	
1	4	W	Troy.....		At Temple street.....	
6			Total hydrants changed.			

LOW SERVICE DISTRICT.—SCHEDULE SHOWING HYDRANTS MOVED IN 1898.

No.	Size.	Side.	Street.	Feet.	Location.
1	4	W	Alabama.....	324	N. of Lake street, moved from E. side of Alabama street.
1	4	S	Beecher.....	101	E. of Norwood street, moved from 232 ft. E. of Dunham avenue.
1	4	W	Gordon.....	210	N. of Detroit street, moved from East Side.
1	4	W	Gordon.....	259	S. of Hermann street, moved from East Side.
1	4	W	Gordon.....	83½	N. of Hermann street, moved from East Side.
1	4	W	Gordon.....	332	N. of Hermann street, moved from East Side.
1	4	W	Gordon.....	634	N. of Hermann street, moved from East Side.
1	4	W	Gordon.....	1020	N. of Hermann street, moved from East Side.
1	4	N	Grand avenue.....	523	E. of Ewald street, moved from 457 ft. E. of Ewald street.
1	4	S	Hamilton.....	243	W. of Marquette street, moved from 324 ft. W. of Marquette street.
1	4	E	Homewood.....	40	S. of Temple street, moved from Temple street.
1	4	N	Kennedy.....	593	E. of Bolton avenue, moved from 578 ft. E. of Bolton avenue.
1	4	N	Leavitt alley.....	389½	W. of Northeast avenue, moved from 339½ ft. W. of Northeast ave.
1	4	W	Melvin.....	588	N. Orville street, moved from 488 ft. N. of Orville street.
1	4	N	Quincy.....	4	W. of Streater avenue, moved from 114 ft. W. of Streater avenue.
			Forward.....		

LOW SERVICE DISTRICT.—Schedule Showing Hydrants Moved in 1898.—Concluded.

No.	Size.	Side.	Street.	Feet.	Location.
			<i>Forward.....</i>		
1	4	E	Snow.....	342	S. of E. Clark avenue, moved from 254 ft. S. of E. Clark avenue.
1	4	E	Tod.....		At Heisley street, moved from Heisley street.
1	4	S	Union.....	14	W. of Echo street, moved from 98 ft. W. of Echo street.
1	4	S	Wade Park avenue.....	52½	E. of Ansel avenue, moved from 5 ft. E. of Ansel avenue.
1	4	S	W. Clinton.....	285	E. of Watterson street, moved from 394 ft. E. of Watterson street.
20			Total hydrants moved.		

**LOW SERVICE DISTRICT.—RECAPITULATION OF FIRE
HYDRANTS FOR 1898.**

6-inch hydrants set in 1898.....	6
4-inch hydrants set in 1898.....	153
4-inch hydrants changed from high service district	6
Hydrants in use December 31st, 1897	4,864
	<hr/>
Total	5,028
3-inch and 4-inch hydrants taken out in 1898.....	17
4-inch hydrants changed to high service district.....	54
	<hr/>
Total hydrants in use December 31st, 1898.....	4,957
Of 4,957 hydrants in use 153 are 6-inch, the balance are 3-inch and 4-inch.	

HIGH SERVICE DISTRICT.—SCHEDULE SHOWING THE LOCATION OF FIRE
HYDRANTS SET IN 1898.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4	E.....	Alpine.....	312	S. of Leroy street	
1	4	E.....	Alpine.....	471	S. of Leroy street	
1	4	S.....	Arey.....	126	E. of Brandon street	
1	4	W.....	Brandon	65	S. of Paul street.....	
1	4	W.....	Brandon	134	N. of Walter street	
1	4	W.....	Brandon.....	145	N. of Arey avenue.....	
1	4	S.....	Bush.....	176	W. of Burton street	
1	4	S.....	Bush.....	499	W. of Burton street	
1	4	S.....	Bush.....	288	E. of Lapiet street.....	
1	4	S.....	Cambridge.....	247	E. of Sawyer street.....	
1	4	S.....	Cambridge.....	13	W. of Sawyer street.....	
1	4	S.....	Cambridge.....	309	W. of Sawyer street	
1	4	S.....	Cambridge.....	540	W. of Sawyer street.....	
1	4	W.....	Cowley	258	S. of Miles avenue.....	
1	4	S.....	Force	200	W. of Turney avenue.....	
1	4	S.....	Force	112	W. of Warner road.....	
					<i>Forward.....</i>	

HIGH SERVICE DISTRICT.—Schedule Showing the Location of Fire Hydrants Set in 1898.—Continued.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4	S.....	Force.....	415	<i>Forward</i>	
1	4	S.....	Force.....	716	W. of Warner road.....	
1	4	S.....	Goodman.....	908	W. of Warner road.....	
1	4	S.....	Goodman.....	206	E. of Goodman court.....	
1	4	S.....	Goodman.....	87	W. of Goodman court.....	
1	4	W.....	Groton.....	219½	N. of Etna street.....	
1	4	W.....	Groton.....	559	N. of Etna street.....	
1	4	W.....	Groton.....	594	S. of Union street.....	
1	4	S.....	Harvard.....		At Marham street.....	
1	4	S.....	Harvard.....		At Greenleaf street.....	
1	4	N.....	Harvard.....	88	W. of Radway street.....	
1	4	S.....	Holton.....	248	E. of Ambler avenue.....	
1	4	S.....	Laisy.....	160	E. of Upton street.....	
1	4	S.....	Laisy.....	471	E. of Upton street.....	
1	4	S.....	Laisy.....	751	E. of Upton street.....	
1	4	W.....	Milford.....		At Bush avenue.....	
					<i>Forward</i>	

HIGH SERVICE DISTRICT.—Schedule Showing the Location of Fire Hydrants Set in 1898.—Continued.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4	W	Milford.....	323½	<i>Forward</i>	
1	4	W	Milford.....	652½	S. of Bush avenue.....	
1	4	W	Milford.....	254½	S. of Bush avenue.....	
1	4	W	Milford.....	25	N. of Ladin street.....	
1	4	W	Milford.....	239	S. of Ladin street.....	
1	4	E	Minton.....	60	N. of Dennison avenue.....	
1	4	S	Pratt.....		E. of Ruggles street.....	
1	4	W	Radway.....	362	At Harvard street.....	
1	4	W	Radway.....		S. of Harvard street.....	
1	4	W	Radway.....	437	At angle in street.....	
1	4	W	Ridge road.....	13	N. of C. B. & T. R. R.....	
1	4	W	Ridge road.....	33½	N. of Day road.....	
1	4	W	Ridge road.....		N. of Russel lane.....	
1	4	W	Ridge road.....		At entrance to West Park Cemetery.....	
1	4	E	Ritchie.....		At Storer avenue.....	
1	4	E	Ritchie.....	320	S. of Storer avenue.....	
1	4	E	Ritchie.....	624	S. of Storer avenue.....	
					<i>Forward</i>	

HIGH SERVICE DISTRICT.—Schedule Showing the Location of Fire Hydrants Set in 1898.—Continued.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4	E.....	Ritchie.....	568	<i>Forward</i>	
1	4	E.....	Ritchie.....	280	N. of Dennison avenue.....	
1	4	S.....	Third.....	500	N. of Dennison avenue.....	
1	4	S.....	Third.....	224	E. of Skinner street.....	
1	4	S.....	Third.....	10	E. of Skinner street.....	
1	4	W.....	Turney.....		E. of Skinner street.....	
1	4	W.....	Turney.....	59	At Garfield avenue.....	
1	4	W.....	Turney.....	102	N. of Macomb avenue.....	
1	4	W.....	Turney.....	153	N. of Jeffries avenue.....	
1	4	W.....	Turney.....	102	S. of Jeffries avenue.....	
1	4	W.....	Turney.....	58	N. of Stewart avenue.....	
1	4	W.....	Turney.....		S. of Albemarle avenue.....	
1	4	E.....	Turney.....		At St. Genevieve avenue.....	
1	4	W.....	Turney.....		At Grand Division avenue.....	
1	4	W.....	Tyson.....		At Way street.....	
1	4	W.....	Warwick.....	328	S. of Harvard street.....	
1	4	W.....	Warwick.....	61	N. of Radway street.....	
					<i>Forward</i>	

HIGH SERVICE DISTRICT.—Schedule Showing the Location of Fire Hydrants Set in 1898.—Concluded.

No.	Size.	Side.	Street.	Feet.	Location.	Remarks.
1	4	W	Warwick.....		<i>Forward.</i>	
1	4	E	Wyoming.....	305	At Belfast street.....	
1	4	E	Wyoming.....	294	N. of Dennison avenue.....	
1	4	E	Wyoming.....	11	S. of Malvern street.....	
1	4	E	Wyoming.....	350	N. of Malvern street.....	
1	4	E	Wyoming.....		S. of Evans street.....	
1	4	E	Wyoming.....		At Evans street.....	
70			Total Hydrants set in 1898.			

HIGH SERVICE DISTRICT.—SCHEDULE SHOWING HYDRANTS MOVED IN 1898.

No.	Size.	Side.	Street.	Feet.	Location.
1	4	E.....	Athantic.....	196	S. of Kinsman street, moved from 8 ft. S. of Kinsman street.
1	4	S.....	Osmond.....	388	E. of Tod street, moved from Tod street.
1	4	S.....	Rayner.....	801	W. of Ridge avenue, moved from 681 ft. W. of Ridge avenue.
1	4	E.....	Ridge.....	69½	S. of Anthony street, moved from Ridge avenue at First avenue.
1	4	S.....	Third.....	556	W. of Tod street, moved from 481 ft. W. of Tod street.
1	4	E.....	Ursula.....	214	N. of Lorain street, moved from 175 ft N. of Lorain street.
6	.....	.....	Total Hydrants moved.	.....

HIGH SERVICE DISTRICT.—RECAPITULATION OF FIRE
HYDRANTS FOR 1898.

4-inch hydrants set in 1898.....	70
4-inch hydrants changed from Low Service District.....	54
Hydrants in use December 31st, 1897.....	848
Total	972
4-inch hydrants changed to Low Service District.....	6
Total hydrants in use December 31st, 1898.....	966
Of 966 hydrants in use 23 are 6-inch, 943 are 4-inch.	

HYDRANTS IN USE IN BOTH DISTRICTS, DECEMBER 31, 1898.

Low Service District.....	4957
High Service District.....	966
In both districts.....	5923

LOW SERVICE DISTRICT.—SCHEDULE SHOWING SIZE, NUMBER AND LOCATION OF STOP
GATES SET IN 1898.

No.	Size.	Street.	Side.	Location.	Remarks.
1	48	Case	W	7 feet N. of Cedar ave.	
1	48	Division	S	8½ feet E. of E. L. Water Works lot	
1	48	Division st. Station Grounds		{ 73 feet E. of building for Allis pump, and 12 feet S. of N. L. of building	
3	Total.				
1	42	Division	N	28 feet E. of E. L. of Water Works lot	
1	36	Division st. Station Grounds		Inside of building for Allis pump	
1	36	Division st. Station Grounds		Inside of building for Allis pump	Check valve.
2	Total.				
1	12	Dennison	N	18 ft. W. of E. L. Rhodes ave. and 15 ft. S. of N. L. Dennison ave.	{ Connection valve between high and low service.
1	12	Rhodes	E	N. L. of Dennison ave.	
1	12	Rhodes	E	S. L. of Riverside ave.	
1	12	Rhodes	E	S. L. of Bush ave.	
4	Total.				

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LOW SERVICE DISTRICT.—Schedule Showing Size, Number and Location of Stop Gates Set in 1898—Continued.

No.	Size.	Street.	Side.	Location.	Remarks.
1	10	Detroit.....	S.....	W. L. of Elliott st.....	
1	10	Detroit.....	S.....	W. L. of Halstead st.....	
1	10	Detroit.....	S.....	W. L. of Landon st.....	
1	10	Oliver.....	E.....	N. L. East Chestnut st.....	
1	10	Pleasant.....	W.....	S. L. of Clark ave.....	
5		Total.....			
1	8	Ansel.....	W.....	42½ feet S. of N. L. St. Clair st.....	Acquired by annexation.
1	8	Detroit.....	S.....	228 feet W. of Gordon ave.....	{ Acquired by annexation in
1	8	Division.....	S.....	E. L. Taylor st.....	{ 1894, but not reported.
1	8	Division st. Station Grounds.....			
1	8	Division st. Station Grounds.....			
1	8	Gordon.....	W.....	N. L. of Herman st.....	
1	8	Lorain.....	N.....	1 foot W. of E. L. Yorker and 20 feet S. of N. L. Lorain st.....	{ Connection valve between
1	8	Pearl.....	W.....	S. L. of Bradwell st.....	{ high and low service.
1	8	Quincy.....	N.....	E. L. of Steward ave.....	
1	8	Ridge.....	E.....	64½ feet S. of Anthony st., 23 feet W. of E. L. Ridge ave.....	{ Connection valve between
1	8	Wade Park ave.....	S.....	W. L. of Boulevard.....	{ high and low service.

LOW SERVICE DISTRICT.—Schedule Showing Size, Number and Location of Stop Gates Set
in 1898—Continued.

No.	Size.	Street.	Side.	Location.	Remarks.
1	8	Wade Park ave.....	S	E. L. of Boulevard.....	
1	8	Wade Park ave.....	S	E. L. of Norwood ave.....	
1	8	Wade Park ave.....	S	W. L. of Dunham ave.....	
1	8	Wellington	E	S. L. of West Madison ave.....	4-inch valve taken out.
1	8	Wellington	E	S. L. of Cudell st.....	
16	.....	Total.			
1	6	Alexander.....	E	S. L. of Bower st.....	
1	6	Alger	E	S. L. of Hermann st.....	
1	6	Almira	W	N. L. of Churchill st.....	
1	6	Ausel	W	N. L. of St. Clair st.....	
1	6	Arnold	N	E. L. of Rhodes ave	Acquired by annexation.
1	6	Basetta.....	E	N. L. of Willard st.....	
1	6	Beecher	S	W. L. of Dunham ave ..	
1	6	Beecher	S	E. L. of Dunham ave.....	
1	6	Billings	W	S. L. of Euclid ave.....	
1	6	Billings	W	N. L. of East Prospect st.....	

LOW SERVICE DISTRICT.—Schedule Showing Size, Number and Location of Stop Gates Set
in 1898—Continued.

No.	Size.	Street.	Side.	Location.	Remarks.
1	6	Bonna	S	W. L. of East Madison ave.....	
1	6	Bradwell	N	W. L. of Pearl st.....	
1	6	Bratenahl	W	N. L. of St. Clair st.....	
1	6	Brevier	N.	E. L. of Columbus st.....	
1	6	Burns.....	W	S. L. of Fairfield st.....	
1	6	Bush	N	E. L. of Rhodes ave	
1	6	Bush	N	W. L. of Rhodes ave.....	
1	6	Bush	N	14¼ ft. W. of E. L. Rhodes ave. and 25 ft. S. of N. L. of Bush ave.	Connection valve.
1	6	Canal	N	E. L. of Harrison st.....	
1	6	Chandler	W	1,207 feet S. of St. Clair st	
1	6	Chatham	N	W. L. of Penn st	
1	6	Chatham	N	W. L. of McLean St	
1	6	Chatham	N	E. L. of McLean st.....	
1	6	Churchill	S	W. L. of Almira st.....	
1	6	Churchill	S	W. L. of Parkwood st.....	
1	6	Clark	S	E. L. of Merchants st.....	
1	6	Cudell	S	W. L. of Wellington ave.....	3-inch valve abandoned.

LOW SERVICE DISTRICT.—Schedule Showing Size, Number and Location of Stop Gates Set
in 1898—Continued.

No.	Size.	Street.	Side.	Location.	Remarks.
1	6	Cudell	S	E. L. Mueller ave.....	
1	6	Davis.....	E	S. L. of West Madison ave.....	4-inch valve taken out.
1	6	Davis.....	E	1,164 feet south of West Madison avenue	
1	6	Davis.....	E	N. L. of Willard st	4-inch valve taken out.
1	6	Division	S	149 feet east of Taylor st. and 25 feet north of S. L. Division st....	
1	6	Division	S	119 feet east of Taylor st. and 22 feet north of S. L. Division st....	
1	6	Division st. Station Grounds ..	.....	11½ ft. south of Geary Boiler House & 1¼ ft. E. of W. L. of House	
1	6	East Chestnut	N	E. L. of Oliver st.....	
1	6	East Chestnut.....	N	W. L. of Oliver st	
1	6	East Lake.....	S	E. L. of Adrian st	
1	6	East Lake.....	S	W. L. of Parkwood st	
1	6	Edmunds	S	W. L. of Amesbury ave.....	
1	6	Edna	S	E. L. of Dana st	
1	6	Edna	S	W. L. of Norwood st.....	
1	6	Elliott.....	W	N. L. of Detroit st.....	
1	6	Fir.....	S	E. L. of Gordon ave	4-inch valve taken out.
1	6	Fir.....	N	W. L. of Gordon ave.....	

LOW SERVICE DISTRICT.—Schedule Showing Size, Number and Location of Stop Gates Set
in 1898—Continued.

No.	Size.	Street.	Side.	Location.	Remarks.
1	6	Foota.....	E.....	S. L. of Grand ave.....	
1	6	Garrelson.....	E.....	S. L. of Holton ave.....	
1	6	Goodwalk.....	S.....	E. L. of Salisbury ave.....	
1	6	Goodwalk.....	S.....	W. L. of Smithfield st.....	
1	6	Goulder.....	E.....	S. L. of Laird st.....	
1	6	Goulder.....	E.....	N. L. of Macon st.....	
1	6	Grove Lane.....	W.....	N. L. of Holmden ave.....	
1	6	Grove Lane.....	W.....	S. L. of Holmden ave.....	
1	6	Halstead.....	W.....	N. L. of Detroit st.....	
1	6	Hamilton.....	S.....	E. L. of Kirtland st.....	
1	6	Hamilton.....	S.....	W. L. of Coe st.....	4-inch valve taken out.
1	6	Hamilton.....	S.....	E. L. of Coe st.....	
1	6	Heisley.....	S.....	W. L. of Tod st.....	
1	6	Helen.....	E.....	S. L. of Western ave.....	
1	6	Herriek.....	W.....	N. L. of Detroit st.....	
1	6	Homewood.....	E.....	S. L. of Morgan ave.....	4-inch valve taken out.
1	6	Hurlbut.....	E.....	N. L. of Perkins ave.....	

LOW SERVICE DISTRICT.—Schedule Showing Size, Number and Location of Stop Gates Set
in 1898—Continued.

No.	Size.	Street.	Side.	Location.	Remarks.
1	6	Hurley	N	E. L. of Bridgeview ave	4-inch valve taken out.
1	6	Jay	N	E. L. of Jersey st	
1	6	Jersey	E	S. L. of Jay st	
1	6	Jersey	E	N. L. of Carroll st	
1	6	Jersey	E	S. L. of Carroll st	
1	6	Kentucky	E	S. L. of Woodbine st	
1	6	Laird	S	E. L. of Wellington ave	3-inch valve taken out.
1	6	Laird	S	W. L. of Basetta st	4-inch valve taken out.
1	6	Landon	E	S. L. Detroit st	
1	6	Lane	N	E. L. of Commercial st	
1	6	Leading	N	E. L. of Rhodes ave	
1	6	Lowell	E	S. L. of Detroit st	3-inch valve taken out.
1	6	Lowell	E	N. L. of Franklin ave	
1	6	Macon	S	E. L. of Wellington ave	
1	6	Macon	S	W. L. of Basetta st	
1	6	Mapledale	N	E. L. of Rhodes ave	
1	6	Mecca	E	N. L. of Detroit st	4-inch valve taken out.

LOW SERVICE DISTRICT.—Schedule Showing Size, Number and Location of Stop Gates Set
in 1898—Continued.

No.	Size.	Street.	Side.	Location.	Remarks.
1	6	Merchants.....	W	N. L. of Clark ave.....	
1	6	Minerva.....	W	S. L. of Stanley ave.....	
1	6	Mueller	E	S. L. of Oudell st.....	
1	6	Myron	S	E. L. of Hodge ave.....	
1	6	Myron	S	W. L. of Woolsey st.....	
1	6	Nevada.....	S	W. L. of Oakdale st.....	
1	6	Norwood	W	N. L. of Glass ave.....	
1	6	Noyes.....	W	N. L. of Clark ave.....	
1	6	Noyes	W	S. L. of Clark ave.....	
1	6	Noyes.....	W	N. L. of Rowley st.....	
1	6	Penn.....	E	N. L. of Carroll st.....	
1	6	Penn.....	E	S. L. of Carroll st.....	
1	6	Penn.....	E	S. L. of Lorain st.....	4-inch valve taken out.
1	6	Penn.....	E	N. L. of Chatham st.....	
1	6	Penn.....	E	S. L. of Chatham st.....	4-inch valve taken out.
1	6	Penn.....	E	N. L. of Monroe st.....	4-inch valve taken out.
1	6	Perun	E	S. L. of Croton st.....	

LOW SERVICE DISTRICT.—Schedule Showing Size, Number and Location of Stop Gates Set
in 1898—Continued.

No.	Size.	Street.	Side.	Location.	Remarks.
1	6	Platt	S	W. L. of Lincoln ave.....	{ Connection valve. 4-inch valve taken out.
1	6	Pleasant.....	E	891 feet S. of Clark ave. and 16 feet W. of E. L. Pleasant st.....	
1	6	Prim	E	S. L. of Frontier st.....	
1	6	Proposed street.....	N	E. L. of Rhodes ave.....	
1	6	Reible	N	E. L. of Rhodes ave.....	Acquired by annexation. Connection valve.
1	6	Sagamora.....	N	E. L. of Ingleside ave.....	
1	6	Sagamora.....	N	W. L. of East Madison ave.....	
1	6	Seedle	E	N. L. of Wade Park ave.....	
1	6	Smith.....	N	E. L. of Rhodes ave.....	
1	6	St. Clair.....	N	E. L. of Ansel ave.....	
1	6	St. Clair.....	S	E. L. of Ansel ave.....	
1	6	St. Clair.....	W	16½ feet E. of W. L. Ansel ave. and 15 feet N. of S. L. St. Clair st.	
1	6	Stoneman.....	W	S. L. of Kinsman st.....	
1	6	Streator	W	N. L. of Quincy st.....	
1	6	Streator	W	S. L. of Quebec st.....	Acquired by annexation. Connection valve.
1	6	Temple	S	W. L. of Homewood ave.....	
1	6	Wateron.....	W ..	S. L. of Detroit st	

LOW SERVICE DISTRICT.—Schedule Showing Size, Number and Location of Stop Gates Set
in 1898—Continued.

WATER WORKS.

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No.	Size.	Street.	Side.	Location.	Remarks.
1	6	Weimer	W	N. L. of Fleet st.	4-inch valve taken out. Acquired by annexation. Acquired by annexation.
1	6	Weimer	W	582 feet S. of Heasley st.	
1	6	West Clinton	S	E. L. of Waterson st.	
1	6	West Jackson	W	N. L. of Detroit st.	
1	6	Wheelock	E	S. L. of St. Clair st.	
1	6	Wheelock	E	N. L. of Crumb st.	
1	6	Willard	N	E. L. of Wellington ave.	
1	6	Willard	N	E. L. of Davis ave.	
1	6	Willet	E	S. L. of Monroe st.	
1	6	Woodbridge	N	W. L. of Rhodes ave.	
1	6	Woodridge	N	E. L. of Willson ave.	
1	6	York	E	S. L. of Monroe st.	
6	6	For hydrants.			
130		Total.			

LOW SERVICE DISTRICT.—Schedule Showing Size, Number and Location of Stop Gates Set
in 1898—Concluded.

No.	Size.	Street.	Side.	Location.	Remarks.
1	4	Dorothy Place.....	S	E. L. of Willson ave.....	
1	4	Fair Court.....	N	E. L. of Dunham ave.....	
1	4	Hancock Alley	N	E. L. of Jersey st.....	
1	4	Hancock Alley	N	W. L. of Penn.....	
1	4	Keene Alley	N	E. L. of Jersey st.....	
1	4	Krupp Alley.....	W	N. L. of Monroe st.....	
1	4	Riverside.....	N	E. L. of Rhodes ave.....	
1	4	Riverside.....	S	E. L. of Rhodes ave.....	
1	4	Sheppard	N	W. L. of Ware st.....	
1	4	State Alley.....	E	S. L. of Monroe st.....	
152	4	With hydrants.			
162		Total.			

LOW SERVICE DISTRICT.—SCHEDULE OF STOP GATES TAKEN OUT IN 1898.

No.	Size Taken Out.	Size.	Street.	Side.	Location.	Remarks.
4	20		Fairview Park.....		At site of Old Reservoir.....	
1	20		Franklin ave.....	S.....	182 feet E. of Kentucky st.....	
5			Total.....			
1	16		Franklin ave.....	S.....	320 feet E. of Kentucky st.....	Taken out in 1897 but not reported.
1	8		Fairview Park.....		At site of Old Reservoir.....	
1	6		Detroit.....	S.....	12 feet E. of W. L. Herrick st.....	
1	6		Detroit.....	S.....	103½ feet W. of Ware st.....	
1	6		Franklin.....	N.....	15 feet W. of Hinkley st.....	
1	6		Riverside.....	S.....	15½ feet W. of E. L. Rhodes ave.....	
4			Total.....			
1	4	6	Davis.....	E.....	S. L. of W. Madison ave.....	
1	4	6	Davis.....	E.....	N. L. Willard st.....	

LOW SERVICE DISTRICT.—Schedule of Stop Gates Taken Out in 1898—Continued.

No.	Size Taken Out.	Size.	Street.	Side.	Location.	Remarks.
1	4	6	Elliott	W	N. L. of Detroit st.	
1	4	6	Halsted	W	N. L. of Detroit st.	
1	4	6	Herrick	W	N. L. of Detroit st.	
1	4	6	Jay	N	E. L. of Jersey st.	
1	4	6	Landon	W	S. L. of Detroit st.	
1	4	6	Meos	E	N. L. of Detroit st.	
1	4	6	Penn	E	S. L. of Lorain st.	
1	4	6	Penn	E	S. L. of Chatham	
1	4	6	Penn	E	N. L. of Monroe st.	
1	4	6	Pleasant	E	S. L. of Clark ave.	
1	4	6	Pleasant	E	691 feet S. of Clark ave.	
1	4	6	Ursula	E	S. L. of Willard st.	
1	4	8	Wellington	E	S. L. W. Madison ave.	
1	4	8	Wellington	E	131½ feet S. of Cadell st.	
1	4	6	W. Jackson	W	N. L. of Detroit st.	
9	4		With hydrants.			Connection valve.
26			Total.			

LOW SERVICE DISTRICT.—Schedule of Stop Gates Taken Out in 1898—Concluded.

No.	Size Taken Out.	Size.	Street.	Side.	Location.	Remarks.
1	3	6	Cudell.....	S.....	W. L. of Wellington ave.....	
1	3	6	Laird.....	S.....	E. L. of Wellington ave.....	
1	3	6	Lowell.....	E.....	S. L. of Detroit st.....	
1	3	6	Macon.....	N.....	E. L. of Wellington ave.....	
6	3		With hydrants.			
10			Total.			

SCHEDULE SHOWING SIZE AND LOCATION OF STOP GATES CHANGED FROM LOW SERVICE DISTRICT TO HIGH SERVICE DISTRICT IN 1898.

No.	Size.	Street.	Size.	Location.	Remarks.
1	8	Lorain.....	N.....	E. L. of Ursula st.....	
1	8	Lorain.....	N.....	E. L. of Norton st.....	
1	8	Lorain.....	N.....	E. L. of Wellington ave.....	
1	8	Lorain.....	N.....	W. L. of Wellington ave.....	
1	8	Ridge.....	E.....	S. L. of Neville st.....	
1	8	Wellington.....	E.....	N. L. of Lorain st.....	
1	8	Wellington.....	E.....	S. L. of Lorain st.....	
7		Total.....			
1	6	Basetta.....	E.....	N. L. of Lorain st.....	
1	6	Berry.....	S.....	W. L. of Ridge ave.....	
1	6	Coit.....	E.....	S. L. of Lorain st.....	
1	6	Davis.....	E.....	N. L. of Lorain st.....	
1	6	Davis.....	E.....	S. L. of Willard st.....	
1	6	Dearborn.....	S.....	E. L. of Ridge ave.....	
1	6	Fisk.....	S.....	W. L. of Ridge ave.....	
1	6	Minton.....	E.....	S. L. of Lorain st.....	
1	6	Neville.....	S.....	W. L. of Ridge ave.....	

SCHEDULE SHOWING SIZE AND LOCATION OF STOP GATES CHANGED FROM LOW SERVICE
DISTRICT TO HIGH SERVICE DISTRICT IN 1898—Concluded.

No.	Size.	Street.	Size.	Location.	Remarks.
1	6	Norton	E.....	S. L. of Lorain st.....	
1	6	President.....	E.....	820½ feet north of Dennison ave.....	
1	6	Rayner	S.....	W. L. of Ridge ave.....	
1	6	Rhodes	W.....	N. L. of Riverside.....	
1	6	Richard	E.....	N. L. of Lorain st	
1	6	Sage	E.....	S. L. of Lorain st	
1	6	Shaw	S.....	E. L. of Ridge ave.....	
1	6	S. Mueller.....	E.....	N. L. of Lorain st.....	
1	6	Wentworth	S.....	E. L. of Ridge ave.....	
1	6	Willard.....	S.....	E. L. of Wellington ave	
1	6	Willard	S.....	W. L. of Davis ave	
1	6	Yonker	E.....	S. L. of Lorain st	
21		Total			
1	4	Hodgson.....	S.....	W. L. of Rhodes ave.....	
1	4	Thomas court.....	N.....	14½ feet east of W. L. Rhodes ave	
54	4	With Hydrants.....			
56		Total.....			

SCHEDULE SHOWING SIZE AND LOCATION OF STOP GATES CHANGED FROM HIGH SERVICE
DISTRICT TO LOW SERVICE DISTRICT IN 1898.

No.	Size.	Street.	Side.	Location.	Remarks.
1	12	Dennison.....	N.....	E. L. of Rhodes ave	
1	8	Morgan	S	W. L. of Maplewood ave	
1	6	Troy.....	W	S. L. of Morgan ave	
6	4	With Hydrants	

WATER WORKS.

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LOW SERVICE—RECAPITULATION OF STOP GATES FOR 1898.

Water Way in Inches.	48	42	36	30	24	20	16	12	10	8	6	4	3	Total.
In use previous to 1898 .....	.....	16	57	74	13	24	98	139	242	704	2,708	4,988	44	9,107
Set in 1898	3	1	2	.....	.....	.....	.....	4	5	16	130	162	.....	323
Changed from High Service District .....	.....	.....	.....	.....	.....	.....	.....	1	.....	1	1	6	.....	9
Taken out in 1898	3	17	59	74	13	24	98	144	247	721	2,839	5,156	44	9,439
Changed to High Service District .....	.....	.....	.....	.....	.....	5	1	.....	.....	1	4	26	10	47
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	7	21	56	.....	84
Total in use Dec. 31, 1898	3	17	59	74	13	19	97	144	247	713	2,814	5,074	34	9,308

HIGH SERVICE DISTRICT—SCHEDULE SHOWING SIZE, NUMBER AND LOCATION OF STOP
GATES SET IN 1898.

No.	Size.	Street.	Side.	Location.	Remarks.
1	12	Ridge	W	431 feet N. of C. B. & T. R.R.	
1	12	Ridge	W	N. L. of Day Road	
1	12	Ridge	W	537½ feet south of Day road.....	
1	12	Ridge	W	N. L. of Gobeille ave	
1	12	Ridge	W	N. L. of Russell lane	
6	Total.				
1	10	Turney	W	S. L. of Macomb ave	
1	10	Turney	W	S. L. of Albemarle ave.....	
2	Total.				
1	8	Warwick	W	S. L. of Belfast st	
1	6	Alpine.....	E	S. L. of Holton ave.....	
1	6	Ambler	E	N. L. of Helton ave	
1	6	Bush	S	W. L. of Rhodes ave.....	

HIGH SERVICE DISTRICT—Schedule Showing Size, Number and Location of Stop Gates Set
in 1898.—Continued.

No.	Size.	Street.	Side.	Location.	Remarks.
1	6	Bush	S	E. L. of Lapiro st.....	
1	6	Cambridge	S	W. L. of Woodland Hills ave.....	
1	6	Cambridge.....	S	E. L. of Sawyer ave	
1	6	Cambridge	S	W. L. of Sawyer ave.....	
1	6	Cowley	W	S. L. of Miles ave	
1	6	Evans	N	W. L. of Lapiro st	
1	6	Force	S	W. L. of Turney st	
1	6	Force.....	S	W. L. of Warner Road	
1	6	Groton	W	N. L. of Atkins st	
1	6	Laisy	S	E. L. of Upton st	
1	6	Milford.....	W	N. L. of Evans st	
1	6	Milford	W	S. L. of Evans st.....	
1	6	Milford.....	W	656½ feet south of Bush ave.....	
1	6	Oase.....	S	W. L. of Cottage st	
1	6	Osmond	S	E. L. of Tod st.....	
1	6	Roadway	W	S. L. of Harvard st	
1	6	Roadway	W	S. L. of Railway to the east.....	

HIGH SERVICE DISTRICT—Schedule Showing Size, Number and Location of Stop Gates Set
in 1898.—Concluded.

No.	Size.	Street.	Side.	Location.	Remarks.
1	6	Radway	N.....	W. L. of Warwick st	
1	6	Ritchie	E.....	S. L. of Storer ave	
1	6	Tyson	W	N. L. of Reno st.....	
1	6	Ursula.....	E.....	S. L. of Willard st.....	4-inch valve taken out.
1	6	Wyoming.....	E.....	S. L. of Malvern st	
25	.....	Total.			
71	4	With Hydrants.....			

WATER WORKS.

HIGH SERVICE DISTRICT.—RECAPITULATION OF STOP GATES SET IN 1898.

Water Way in Inches.	30	24	20	18	12	10	8	6	4	3	Totals.
In use previous to 1898	18	19	10	19	69	81	67	351	845	.....	1,479
Set in 1898 .....	.....	.....	.....	.....	5	2	1	25	71	.....	104
Changed from Low Service District .....	.....	.....	.....	.....	.....	.....	7	21	56	.....	84
Changed to Low Service District	18	19	10	19	74	83	75	397	972	.....	1,687
.....	.....	.....	.....	.....	1	.....	1	1	6	.....	9
Total in use Dec. 31, 1898	18	19	10	19	73	83	74	396	966	.....	1,683

HIGH SERVICE DISTRICT—RECAPITULATION OF STOP GATES SET IN 1898.

In Low Service District	9,308
In High Service District	1,688
In both districts	10,996

SCHEDULE OF PIPE LOWERED IN BOTH DISTRICTS IN 1898.

Size.	Street.	Between what Points.	Number of Feet Lowered.
8	Alabama	From 143 feet N. of Lake street north.....	191
6	Alabama.....	" 12 feet N. of St. Clair street to 24 feet N. of S. L. Lake street.....	577
6	Adrian.....	" 29 feet S. of N. L. E. Lake avenue to 12 feet S. of Superior street.....	258
6	Astor	" pipe in Dunham avenue to E. L. Dunham avenue.....	24
6	Ballou	" 6-inch pipe in E. Clark avenue south.....	60
3	Beta alley	" pipe in Erie street to 10 feet E. of Bond street.....	501
6	Brenton	" 150 feet N. of Central avenue 250 feet N. and from 125 feet S. of Cedar avenue 632 feet south.....	882
6	Chatham.....	" pipe in Penn street east	75
6	Chatham.....	At York street	34
6	Churchill.....	From W. L. Adrian street 370 west, and from 108 E. of Adrian street 150 ft. east.....	520
6	Clark.....	" 5 feet W. of Noyes street to pipe in Merchants avenue	324
8	Dunham	" 30 feet S. of Wade Park avenue to 24 feet S. of Astor street.....	918
6	E. Clark.....	" 75 feet W. of Petrie street to 100 feet W. of Colorado street.....	942
10	Fairfield.....	" 50 feet E. of Jennings avenue east.....	250
6	Hamilton.....	At Alabama street.....	79
24	Harvard.....	From 36 feet E. of Dennison avenue extension east.....	400
6	Jay	At Jersey street.....	20
6	Jersey	From pipe in Jay street north.....	65

SCHEDULE OF PIPE LOWERED IN BOTH DISTRICTS IN 1898.—Concluded.

Size.	Street.	Between what Points.	Number of Feet Lowered.
6	Kimmel.....	From 110 feet S. of Bading street to 321 feet S. of May street.....	613
6	Lincoln.....	" 2d hydrant N. of Woodland avenue north.....	205
6	Literary.....	" 54 feet E. of Merchants avenue to W. L. Pelton street.....	470
6	McLean.....	" S. L. Lorain street to 183 feet S. of Chatham street and from pipe in Monroe street 80 feet north.....	763
6	McLean.....	" 30 feet N. of Monroe street to S. L. Hancock alley.....	226
6	Merchants.....	" S. L. Clark avenue south.....	65
6	Monroe.....	" 20 feet W. of Pearl street to 75 feet W. of York street.....	610
6	Pennsylvania.....	" pipe in Dunham avenue to E. L. Dunham avenue.....	24
6	Putnam.....	" S. of Central avenue south.....	350
6	Streator.....	" 37 feet S. of N. L. Quebec street to 200 feet N. of Quebec street.....	237
6	W. Clinton.....	" W. L. Waverly street to 280 W. and from E. L. Gordon avenue 237 feet east.....	547
6	Zoeter.....	" pipe in Dunham avenue to E. L. Dunham avenue.....	24
		Total number of feet of pipe lowered.....	10,244

392 connections were lowered, amounting to 4,494 feet.

DEPARTMENT OF PUBLIC WORKS.

(STREETS.)

Report of Superintendent.

Report of the Superintendent of Streets.

CLEVELAND, OHIO, March 1, 1899.

HON. GEO. R. WARDEN,
Director of Public Works.

DEAR SIR:—I have the honor to submit to you the annual report of the Street Department for the year ending December 31, 1898.

In order to simplify the report it has been divided into four tables.

Table No. 1 contains the Cleaning and Rounding of unpaved streets, paving repairs, carpenter work, laying and re-laying crosswalks, etc.

It will be seen from Table No. 1 (column 1) that in the year 1898 there has been cleaned and rounded of the dirt streets 4,517,020 lineal feet, or 853.6 miles. Column 2, General Repairs, shows that there have been made and repaired 15,078 feet of wooden gutter boxes and drains, 49,454 feet of crosswalks and 88,880 feet of paving repairs.

Table No. 2 (Cleaning Paved Streets) shows that 56,398.13 squares of 10,000 feet per square of pavement has been cleaned, equal to 3,260.91 miles.

Tables Nos. 3 and 4 contain Sewer District Repairs and Merchandise for same. We have also worked men from the Bethel Associated Charities, the Infirmary of the Department of Charities and Correction, and from the Hebrew Relief Society 4,041 days. These were paid by the above institutions, and cleaned 32,500 crosswalks.

Respectfully,

JAS. P. MURRAY,
Supt. of Streets.

Under the head of "General Repairs" will be found all money expended by the department for the following purposes, viz.: Puddling Streets, Cleaning Catch Basins, Carpenter Repairs on Gutter Boxes, Drains, Stairs, etc.; Paving Gutters and Paving Repairs and Laying and Re-laying Crosswalks.

Puddling streets.....	\$ 3,662 25
Cleaning catch basins.....	5,721 13
Carpenter labor on drains and boxes.....	5,371 09
Paving gutters and paving repairs.....	6,395 22
Laying and relaying crosswalks	5,334 38
<hr/>	
General repairs.....	\$ 26,484 17
Rounding and cleaning.....	58,589 40
<hr/>	
Table No. 1.....	\$ 85,073 57
Table No. 2.....	61,750 54
Merchandise as per bills.....	6,168 44
Salary of officers.....	3,300 00
Salary of janitor.....	643 50
<hr/>	
Expenditures of 1898, from appropriation.....	\$156,936 06
Table No. 3.....	8,477 65
Table No. 4.....	4,780 45
<hr/>	
Total cost of work done through Department of Streets.....	\$170,194 15

TABLE No. 1.

This Table shows cost of Cleaning, Rounding, and Filling of Unpaved or Dirt Streets, and General Repairs. Showing Cost of all Repairs to Street Sub-division, Department of Public Works, for the year ending December 31, 1898.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
Aaron.....	\$ 37 50	\$ 49	\$ 37 99
Abbey	51 00	21 90	72 90
Abram.....	39 57	20 47	60 04
Academy	10 50	14 84	25 34
Addison	8 25		8 25
Ackley	156 82	8 79	165 61
Adelbert	14 00	14 26	28 26
Adolpha		94	94
Aiken	22 73		22 73
Ætna.....	160 15	26 23	186 38
Alabama	36 61	20 56	57 17
Alanson	10 00	6 86	16 86
Almira		1 75	1 75
Alpine.....	110 48	3 00	113 48
Allen	4 02		4 02
Alleys and courts, East Side	1,800 35	33 48	1,833 83
Alleys and courts, West Side	1,461 69	42 57	1,504 26
Alger.....	81 72	33 14	114 86
Alum.....	80 81	4 95	85 76
Ambler	22 50		22 50
Ambleside	39 54		39 54
Amesbury	30 00	2 35	32 35
Amos.....	9 50	94	10 44
Anndale.....	32 79		32 79
Andrew.....	9 15		9 15
Ansel.....	242 55	33 49	276 04
Anderson	9 00		9 00

TABLE No. 1—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
Anton.....	\$ 55 38	\$.....	\$ 55 38
Anson.....	45 81	20 53	66 34
Anthony.....	10 00	.....	10 00
Apple.....	6 00	.....	6 00
Arch.....	.....	6 04	6 04
Archwood.....	48 33	34 68	83 01
Archer.....	12 00	.....	12 00
Arlington.....	52 29	.....	52 29
Armitage.....	45 79	18 21	64 00
Arthur.....	26 28	2 35	28 63
Ash.....	19 65	2 01	21 66
Ashbel.....	10 54	.....	10 54
Aspen.....	33 08	20 69	53 77
Astor.....	26 00	94	26 94
Asylum.....	29 27	.....	29 27
Atlantic.....	254 98	6 32	261 30
Atwater.....	6 18	13 51	19 69
Auburn.....	144 03	19 16	163 19
Aust.....	12 50	94	13 44
Anburndale.....	32 81	.....	32 81
Axtell.....	147 77	55 83	203 60
Abbey Dump.....	420 00	.....	420 00
Avon.....	6 75	.....	6 75
Avery.....	24 04	.....	24 04
Armour.....	.....	6 75	6 75
B.....	.....	7 50	7 50
Baden.....	10 00	.....	10 00
Bading.....	24 04	.....	24 04
Bailey.....	97 53	5 86	103 39
Baker.....	8 52	.....	8 52
Ballou.....	25 04	.....	25 04
Bancroft.....	2 00	.....	2 00

TABLE No. 1—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
Bank	\$ 15 54	\$ 81 80	\$ 97 34
Barrett	8 00		8 00
Barber	79 70	49 46	129 16
Barbara	70 28		68 79
Beres	50 78	4 01	70 28
Barker	3 45		3 45
Barkwill	201 15	43 33	244 48
Baxter	10 54		10 54
Bayne	29 49	5 14	34 63
Bazetta	106 29	5 36	111 65
Beaver	8 00	98	8 98
Beacon	10 50	2 31	12 81
Beaumont	30 77		30 77
Beck		47	47
Becker	59 54	94	60 48
Beckwith	95 58	4 75	100 33
Beech		13 51	13 51
Beechwood	24 52	1 88	26 40
Belden	50 29	2 35	52 64
Bellvue	32 28		32 28
Beeman	13 50		13 50
Belmont	10 52		10 52
Bellflower		81 06	81 06
Benham		4 95	4 95
Berg	8 51	23 10	31 61
Bergen		20 87	20 87
Berghoff	30 05		30 05
Berne	8 00		8 00
Berlin	50 24		50 24
Bertram	29 54		29 54
Bessemer	166 36	11 58	177 94
Beyerle	35 04		35 04
Benlah	51 02		51 02

TABLE No. 1—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
Bigelow.....	\$ 18 00	\$ 3 41	\$ 21 41
Bismarck.....	62 71	8 91	71 62
Biroh.....	54 12	8 99	63 11
Bissell.....	30 00	15 01	45 01
Blanche.....	41 54	17 29	58 83
Bliss.....	45 79	2 25	48 04
Blair.....	10 04	.....	10 04
Blaine.....	14 00	.....	14 00
Bleeker.....	49 11	15 29	64 40
Bolivar.....	25 00	7 58	32 58
Bond.....	62 27	55 57	117 84
Bolton.....	147 94	48 95	196 89
Boeth.....	21 81	.....	21 81
Bonna.....	64 43	.....	64 43
Bradford.....	32 25	6 02	38 27
Bragdon.....	33 53	.....	33 53
Brainard.....	42 82	36 39	79 21
Branch.....	52 23	8 17	60 39
Brayton.....	20 84	.....	20 84
Brevier.....	4 55	94	5 49
Brenton.....	.....	20 87	20 87
Bridge View.....	23 00	.....	23 00
Bridge.....	133 46	49 17	182 63
Brighton.....	109 05	26 07	135 12
Brinsmade.....	20 00	47	20 47
Brightwood.....	12 18	.....	12 18
Broadway.....	497 19	387 90	885 09
Brook.....	12 95	.....	12 95
Brooker.....	79 78	98	80 76
Brookfield.....	.....	5 14	5 14
Brooklyn.....	61 65	5 64	67 29
Brookside.....	11 77	.....	11 77

TABLE No. 1—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
Browning.....	\$ 10 79	\$.....	\$ 10 79
Brunner.....	57 61	.....	57 61
Brown.....	27 31	47	27 78
Brownell.....	29 12	7 05	36 17
Bruce.....	8 25	.....	8 25
Brunswick.....	39 52	13 51	53 03
Buckeye.....	7 59	4 00	11 59
Buckley.....	15 29	.....	15 29
Buell.....	224 92	28 90	253 82
Buhrer.....	54 00	18 80	72 80
Burdock.....	31 53	.....	31 53
Burgess.....	11 00	.....	11 00
Burke.....	13 05	.....	13 05
Burns.....	18 27	.....	18 27
Burton ave.....	98 55	104 09	202 64
Broadwell.....	26 29	.....	26 29
Burwick.....	6 51	1 47	7 98
Burwell.....	.....	2 82	2 82
Bush ave.....	12 00	.....	12 00
Bushnell.....	5 50	.....	5 50
Briggs.....	7 92	.....	7 92
Brady.....	.....	20 22	20 22
Cable.....	27 39	98	28 37
Calumet.....	.....	4 95	4 95
Calvert.....	19 00	.....	19 00
Campbell.....	8 00	.....	8 00
Camden.....	8 00	3 17	11 17
Camp McKisson.....	107 58	48 36	155 94
Canal.....	.....	3 50	3 50
Canfield.....	47 23	2 82	50 10
Cannon.....	30 77	21 30	52 07
Canton.....	45 07	32 09	77 16

TABLE No. 1—Continued.

Streets.	Cleaning. Rounding and Filling.	General Repairs.	Total.
Capitol.....	\$ 22 26	\$.....	\$ 22 26
Carran.....	49 05	1 41	50 46
Carrabelli.....	74 38	5 50	79 88
Carroll.....	43 86	83 28	126 64
Carlisle.....		13 51	13 51
Carl.....	14 78	1 88	16 66
Carter	41 04		41 04
Catch-Basins Cleaned.....		3,090 89	3,090 89
Case	182 13	210 59	392 72
Case Dump	468 00	16 29	484 29
Castle.....	37 75	4 90	42 65
Catawba.....		1 88	1 88
Catharina.....	5 50		5 50
Cedar.....	73 02	406 79	479 81
Centennial.....	38 04		38 04
Center		11 28	11 28
Central.....	138 78	499 23	638 01
Central Viaduct.....	34 14	2 94	37 08
Chadwick	77 86		77 86
Chamberlain.....	10 00		10 00
Chambers.....	9 00	20 30	29 30
Champa.....	50 77	6 73	57 50
Champlain.....	3 45	64 77	68 22
Chapel.....	38 52	94	39 46
Chandler.....	14 68		14 68
Charles.....	26 06	47	26 53
Chatham.....	98 40	10 87	104 27
Cheapside.....	15 00		15 00
Cherry.....	2 50	2 82	5 32
Cheshire.....	7 12	3 12	10 24
Chestnut.....		1 41	1 41
Chester	5 00	1 41	6 41

TABLE No. 1—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
China.....	\$ 10 52	\$ 4 01	\$ 14 53
Chestnut Dale.....	18 51		18 51
Church.....	41 58	8 08	49 66
City Stairs.....	405 59		405 59
Claasen.....	47 06	8 29	55 35
Clara.....	11 00	2 35	13 35
Claremont.....	56 81		56 81
Clark.....	239 72	182 16	421 88
Clarion.....	8 38		8 38
Clarence Lane.....		24 06	24 06
Clarkwood.....	15 40		15 40
Clement.....	7 00	13 01	20 01
Clifford.....	17 25	6 94	24 19
Cliff.....	50 52	13 91	64 43
Clifton.....	44 40	10 23	54 63
Clinton.....	18 13	7 35	25 48
Clinton Park.....	8 27	94	9 21
Clover.....	16 56	13 51	30 07
Coit.....	3 00		3 00
Cloud.....	12 06		12 06
Cobleigh.....	10 00		10 00
Colfax.....	13 25	19 08	32 33
Colgate.....	67 80	8 89	76 69
Coe.....		13 51	13 51
College.....	30 63	2 82	33 45
Collister.....	16 50		16 50
Colorado.....	28 54	23 37	51 91
Cologne.....		1 41	1 41
Columbus.....		147 89	147 89
Celtman.....	70 68	13 51	84 19
Commonwealth.....	32 28	6 07	38 35
Cleaning Crosswalks.....	1,194 87		1,194 87

TABLE NO. 1—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
Commercial.....	\$.....	\$ 121 93	\$ 121 93
Compton.....	32 55	.....	32 55
Cone.....	10 00	.....	10 00
Congress.....	81 05	8 91	89 96
Conrad.....	15 59	13 49	28 99
Consul.....	.....	2 79	2 79
Conover.....	45 58	27 29	72 87
Cook.....	25 93	9 20	35 13
Cooper.....	.....	11 00	11 00
Cornelia.....	14 15	.....	14 15
Cornell.....	10 00	7 27	17 27
Corwin.....	214 74	47	215 21
Cory.....	53 56	.....	53 56
Cottage.....	38 00	.....	38 00
Courtland.....	32 53	1 88	34 41
Covart.....	5 00	.....	5 00
Crane.....	8 51	.....	8 51
Crawford Road.....	274 80	13 18	287 98
Creighton.....	15 04	.....	15 04
Crosby.....	63 25	.....	63 25
Cross.....	70 33	58 16	128 49
Craw.....	10 00	.....	10 00
Croton.....	9 50	19 33	28 83
Crowell.....	8 00	.....	8 00
Cumberland.....	65 02	3 29	68 31
Cudell.....	26 81	.....	26 81
Cullison.....	42 03	21 09	63 12
Curtiss.....	107 86	.....	107 86
Cutler.....	24 81	.....	24 81
Cesar.....	34 31	.....	34 31
Dare.....	44 69	7 44	52 13
Daisy.....	34 77	17 59	52 36

TABLE No. 1—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
Dana.....	\$ 38 04	\$	\$ 38 04
Danforth.....	12 13	1 41	13 54
Dalton.....	80 07	.....	80 07
Darlington.....	4 00	.....	4 00
Dartmouth.....	6 00	.....	6 00
Davenport.....	126 89	33 47	160 36
Davies.....	60 02	47	60 49
Davis Street Yard.....	819 36	5 50	824 86
Dayton.....	7 59	94	8 53
Dean.....	12 00	.....	12 00
Dearborn.....	12 29	.....	12 29
Deckand.....	11 00	94	11 94
Delmars.....	65 57	8 23	73 80
Deering.....	29 79	.....	29 79
Delphina.....	13 78	.....	13 78
Delaware.....	15 84	1 88	17 72
Dellenbaugh.....	46 79	.....	46 79
Dennison.....	885 36	65 63	450 99
Dent.....	8 50	.....	8 50
Dereum.....	5 25	.....	5 25
Detroit.....	218 25	297 23	515 48
Devine.....	5 50	.....	5 50
Devoy.....	10 00	.....	10 00
Dibble.....	52 23	.....	52 23
Diamond Park.....	26 52	.....	26 52
Diemer.....	45 79	.....	45 79
Dike.....	10 04	3 76	13 80
Dille.....	13 52	16 80	29 32
Ditton.....	5 09	.....	5 09
Division.....	61 16	38 59	99 75
Doan.....	826 67	26 40	853 07
Dodge.....	24 76	18 44	43 20

TABLE No. 1—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
Donald.....	\$. 145 02	\$.....	\$ 145 02
Dolloff.....	112 21	74 41	186 62
Dorchester.....		7 23	7 23
Douglas.....	7 39		7 39
Douse.....	48 08	49	48 57
Dove.....	3 79		3 79
Dove Lane.....	12 00		12 00
Dover.....	29 50	4 38	33 88
Dower.....	10 56		10 56
Drake.....	38 04		38 04
Duane.....	16 00	22 46	37 46
Dudley.....	34 68	17 51	52 19
Dunham.....	53 48	28 00	81 48
Duke.....	12 29		12 29
Dupont.....	7 00		7 00
Duluth.....	14 39		14 39
Dugway.....		5 79	5 79
Eagle.....		2 82	2 82
East Chestnut.....	63 81		63 81
East Lake.....	65 07		65 07
East End.....	56 53		56 53
East Madison.....	433 04	79 71	512 75
East River.....		18 23	18 23
East Prospect.....	18 81	21 15	39 96
Eastman.....	8 00		8 00
Eastdale.....	16 82		16 82
Easton.....	34 04	15 01	49 05
East View.....	32 38		32 38
Eastern.....	11 00		11 00
Eben.....	16 52		16 52
Edna.....	17 65		17 65
Edgewater.....	16 00	7 99	23 99

STREETS.

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TABLE No. 1—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
Edwards	\$.....	\$ 23 86	\$ 23 86
Egleston.....	5 00	.....	5 00
Eglindale	10 15	.....	10 15
Elk	12 52	.....	12 52
Elliott.....	.....	12 01	12 01
Ellsworth.....	.....	6 00	6 00
Elm.....	.....	14 10	14 10
Elmdale.....	5 51	.....	5 51
Elmo.....	.....	18 51	18 51
Elmwood	38 54	3 50	42 04
Elton	50 77	7 14	57 91
Emerson.....	14 00	.....	14 00
Emmett.....	9 55	7 99	17 54
Empress.....	18 99	27 14	46 13
Engel.....	68 62	.....	68 62
Erie.....	91 02	104 33	195 35
Erin.....	34 44	71 83	106 27
Essex.....	5 50	.....	5 50
Euclid.....	193 05	835 30	1,028 35
Everett.....	11 39	.....	11 39
Eve.....	13 00	.....	13 00
Evans.....	13 00	.....	13 00
Evergreen.....	.....	10 00	10 00
Factory	185 59	13 51	199 10
Fairlawn	37 53	.....	37 53
Fairfield.....	79 59	.....	79 59
Fairmount.....	89 45	18 80	108 25
Fawn Lane.....	61 54	.....	61 54
Fayette.....	12 31	6 00	18 31
Fifth	9 00	.....	9 00
Filbert .....	.....	13 51	13 51
Finn.....	45 00	.....	45 00

TABLE No. 1—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
Fenney	\$ 27 00	\$.....	\$ 27 00
Fisk.....	12 00	.....	12 00
Fir.....	8 00	.....	8 00
First.....	23 52	1 41	24 93
Fleet.....	231 87	47 69	279 56
Florence, East Side.....	20 50	.....	20 50
Floyd .....	.....	4 00	4 00
Forest, East Side	206 11	41 81	247 92
Forestdale.....	105 05	47	105 52
Foreman.....	15 00	39 89	54 89
Force	18 00	5 00	23 00
Foster	26 35	.....	26 35
Fourth.....	11 00	6 83	17 83
Fowler.....	23 18	4 47	27 65
Frances.....	43 79	29 33	73 12
Frank.....	35 22	1 94	37 16
Frankfort.....	40 00	13 53	53 53
Franklin ave.....	167 09	125 29	292 38
Franklin Circle.....	.....	20 68	20 68
Fraser	16 27	.....	16 27
Frees.....	28 37	.....	28 37
Fredrick.....	24 80	.....	24 80
Fredwill.....	30 03	.....	30 03
Freeman.....	27 02	41 23	68 25
French .....	.....	5 39	5 39
Fremont.....	46 06	10 73	56 79
Front.....	12 15	46 55	58 70
Frontier.....	17 79	.....	17 79
Fuller.....	49 27	.....	49 27
Fulton.....	23 25	8 71	36 96
Fullerton.....	90 60	11 73	102 33
Fruit.....	12 52	.....	12 52

TABLE NO. 1—Continued.

Streets.	Cleaning. Rounding and Filling.	General Repairs.	Total.
Fruitland.....	\$ 39 84	\$ 9 52	\$ 49 36
Garden	2 50	.....	2 50
Gallup.....	51 56	57 05	108 61
Garrettsen.....	41 58	.....	41 58
Gaylord.....	84 02	9 33	43 35
Gauge	121 37	26 66	148 03
Galb	17 29	.....	17 29
Geneva.....	7 52	94	8 46
Genesee.....	38 29	58 68	96 92
George.....	6 78	.....	6 78
Gehring.....	5 79	3 06	8 85
Gertie.....	9 00	.....	9 00
Gibson.....	4 00	.....	4 00
Gibbs	12 00	.....	12 00
Giddings.....	121 04	6 62	127 66
Gilbert	158 08	80 88	238 96
Glass .....	.....	1 41	1 41
Glasier.....	33 64	2 79	35 83
Glenroy	10 00	.....	10 00
Gobelle.. ..	14 27	.....	14 27
Goethe.....	105 14	.....	105 14
Goulder.....	9 00	9 89	18 89
Gordon ave.....	129 25	40 94	170 19
Grace.....	.....	94	94
Grand ave.....	293 08	110 41	403 44
Grand View.....	11 08	.....	11 08
Granite.....	3 54	.....	3 54
Granger.....	.....	47	47
Grape	7 00	.....	7 00
Gray	19 07	.....	19 07
Gregmont	23 25	.....	23 25
Green.....	20 00	2 82	22 82

TABLE No. 1—Continued.

Streets.	Cleaning. Rounding and Filling.	General Repairs.	Total.
Greenleaf.....	\$ 5 50	\$.....	\$ 5 50
Greenwood, East Side.....	69 62	.....	69 62
Gretchen.....	13 00	.....	13 00
Gregg.....	8 60	94	9 54
Griswold.....	7 04	.....	7 04
Guernsey.....	12 58	13 51	26 09
Gulliford.....	.....	6 75	6 75
Guthrie.....	10 00	4 00	14 00
Guy.....	23 02	.....	23 02
Haddock.....	143 95	18 80	167 75
Hague.....	18 78	4 76	23 54
Haight.....	11 29	.....	11 29
Halsey.....	77 57	13 98	91 55
Halstead.....	5 00	.....	5 00
Hampden.....	.....	6 76	6 76
Hamilton.....	313 75	30 19	343 94
Hamburg.....	123 07	20 29	143 36
Hamler.....	71 58	10 79	82 37
Hamm.....	208 67	50 78	259 45
Hancock.....	.....	94	94
Handy.....	.....	94	94
Hanover.....	57 67	36 48	94 15
Harbor.....	38 81	10 00	48 81
Harkness.....	34 26	47	84 73
Harlem.....	11 13	.....	11 13
Harmon.....	.....	13 98	13 98
Harper.....	21 00	.....	21 00
Harriett.....	19 89	.....	19 89
Harris.....	10 00	10 00
Harrison.....	7 05	7 05
Hartford.....	152 84	152 84
Hartnell.....	57 18	57 18

STREETS.

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TABLE No. 1—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
Hathaway.....	\$ 37 54	\$.....	\$ 37 54
Harvard.....	711 66	95 53	807 19
Haven.....	35 04	.....	35 04
Hawthorne.....	76 06	.....	76 06
Hayward.....	55 08	2 59	57 67
Hasen.....	15 00	.....	15 00
Heath.....	66 54	22 09	88 63
Hecker.....	22 40	3 83	26 23
Heisley.....	51 58	4 26	55 84
Hector.....	20 54	.....	20 54
Henry.....	32 00	.....	32 00
Hoge.....	109 61	55 24	164 85
Hoerner.....	8 00	.....	8 00
Helen.....	29 23	.....	29 23
Henrietta.....	4 50	.....	4 50
Herald.....	603 46	41 78	645 24
Herman.....	24 07	36 14	60 21
Herrick.....	7 00	4 70	11 70
Herschel.....	41 65	7 52	49 17
Hickox.....	8 00	.....	8 00
Hicks.....	28 51	81 55	110 06
Higgins.....	9 00	23 11	32 11
High.....	3 45	64 25	67 70
Highland.....	64 63	1 88	66 51
Highview.....	22 02	.....	22 02
Hill.....	.....	154 21	154 21
Hillside.....	39 79	.....	39 79
Hillman.....	20 00	9 58	29 58
Hitchcock.....	49 12	23 04	72 16
Hinman.....	5 20	.....	5 20
Hinde.....	10 00	.....	10 00
Hinkley.....	51 29	.....	51 29

TABLE No. 1—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
Hoadley	\$ 50 29	\$ 2 82	\$ 53 11
Hodge.....	40 00	6 38	46 38
Hoffman.....	28 27		28 27
Hollister.....	48 11		48 11
Holly	4 29		4 29
Holmden	9 61	94	10 55
Holton.....	190 73	33 96	224 69
Holyoke.....		1 88	1 88
Homestead	12 53		12 53
Homewood.....	15 53	17 58	33 11
Homer.....	36 06		36 06
Hooker	27 97	1 00	28 97
Hope	27 00	1 88	28 88
Horace	7 73	13 51	21 24
Hough.....	14 51	27 73	42 24
House.....	20 00		20 00
Howard.....	14 11	34 16	48 27
Howe.....		24 42	24 42
Howlet	19 00	4 01	23 01
Hoyt	121 37	31 90	153 27
Hubbard	11 38		11 38
Huck	18 00		18 00
Hudson.....	85 06		85 06
Humboldt	1 51	27 71	29 22
Hurlbut	39 54	2 54	42 08
Hunting.....	24 04	16 01	40 05
Huntington		46 37	46 37
Hurd	11 00	41 53	52 53
Huron.....		15 96	15 96
Hyde	18 19	6 03	24 22
Hugo	20 04		20 04
Hughes.....	51 54		51 54

TABLE NO. 1—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
Hulda	\$ 6 29	\$.....	\$ 6 29
Hurley.....	28 70		28 7
Haymarket.....		18 02	18 0
Ida.....	83 78		83 78
Independence	687 57	111 36	798 93
Indiana	26 77	20 30	47 07
Inspection dirt streets, East Side		1,566 20	1,566 20
Inspection dirt streets, West Side		1,256 00	1,256 00
Inverness.....	22 39		22 39
Inspection crosswalks.....	729 00		729 00
Iona.....	73 76	16 43	90 19
Inspection catch basins.....		2,630 24	2,630 24
Inspection paving.....		679 55	679 55
Ironton.....	12 81		12 81
Irving.....	76 06		76 06
Ivy	24 04	12 29	36 33
Irvington.....	10 00	6 27	16 27
Itaska.....	5 51		5 51
Isabella.....	119 74	94	120 68
Jackson.....	55 06	13 26	68 32
James		3 29	3 29
Japan.....	4 00	6 36	10 36
Jay	35 46	2 01	37 47
Jefferson.....	117 12	64 31	181 43
Jennings ave.....	137 83	149 89	287 72
Jesse.....	15 00		15 00
Jewett.....	25 04	7 79	32 83
Jironack	24 58		24 58
Johanson.....	4 50	47	4 97
John.....	12 06	6 79	18 85
Jones	143 15	16 45	159 60
Judd.....	19 52	94	20 46

TABLE No. 1—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
Joseph.....	\$ 9 03	\$.....	\$ 9 03
Junction.....		13 51	13 51
Jumper.....		27 55	27 55
Justice.....		4 95	4 95
Kane.....	5 00		5 00
Kelly.....	10 89		10 89
Kenilworth.....	27 38	94	28 32
Kenmore.....	11 77		11 77
Kennard.....		19 62	19 62
Kennedy.....	62 53		62 53
Kenneth.....	10 25		10 25
Kensington.....		94	94
Kentucky.....	56 00	14 48	70 48
Kenyon.....	24 51		24 51
Kidder.....	10 79		10 79
Kerschaw.....	38 04	47 55	85 59
Keyes.....		94	94
King.....	32 78		32 78
Kinkle.....	20 43		20 43
Kirk.....	11 85		11 85
Kirkwood.....	9 27		9 27
Kirtland.....	19 50	4 23	23 73
Kinsman.....	48 29	102 03	150 32
Korman.....	30 78		30 78
Krakow.....	3 75		3 75
Kenyon.....		13 73	13 73
Lapier.....	57 78	21 53	79 31
Laird.....	8 00		8 00
Laisy.....	109 00		109 00
Lake.....	423 21	115 98	539 19
Lake ave.....	225 51	88 76	309 27
Lake View.....	17 53	94	18 47

STREETS.

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TABLE No. 1—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
Lardner.....	\$ 9 00	\$.....	\$ 9 00
Lasalle	21 00	.....	21 00
Laurel	41 54	7 73	49 27
Landon.....	42 05	.....	42 05
Langer.....	9 00	.....	9 00
Lane .....	.....	7 29	7 29
Lawn	65 28	32 34	97 62
Lawn View.....	24 00	.....	24 00
Lawrence.....	25 02	1 88	26 90
Leading.....	.....	4 01	4 01
Ledyard.....	29 50	17 51	47 01
Lena.....	43 00	.....	43 00
Lenox	26 00	3 17	29 17
Leopold.....	26 52	7 79	34 31
Lester	45 28	2 35	47 63
Lexington .....	.....	10 34	10 34
Leyden	39 48	.....	39 48
Liberty.....	74 42	26 79	101 21
Liberal	11 00	6 76	17 76
Libbie.....	12 00	.....	12 00
Library.....	20 96	1 88	22 84
Lincoln.....	31 53	7 05	38 58
Light.....	46 78	.....	46 78
Lime.....	.....	16 51	16 51
Linden.....	50 56	2 35	52 91
Lindsley.....	20 50	10 76	31 26
Lindus .....	.....	94	94
Lindwood	138 27	13 51	151 78
Literary	72 61	30 63	103 24
Little	3 13	2 86	5 99
Livingston .....	.....	94	94

TABLE No. 1—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
Lockyear	\$ 20 29	\$.....	\$ 20 29
Lodge	10 00	.....	10 00
Logan	62 69	15 49	78 18
Logue .....	.....	14 29	14 29
Long .....	.....	13 54	13 54
Longwood	28 00	13 51	41 51
Lookout	10 27	.....	10 27
Lorain	487 61	349 85	837 46
Leren	22 25	.....	22 25
Louis	59 04	5 80	64 34
Lower	28 56	.....	28 56
Lucerne	12 50	.....	12 50
Lowell	16 00	.....	16 00
Lussenden .....	.....	1 96	1 96
Luther	59 19	.....	59 19
Lyman	45 53	9 11	54 64
Lyford	16 25	.....	16 25
Lyon	41 25	.....	41 25
Laverne	3 53	.....	3 53
Macedonia	27 03	.....	27 03
Macomb	6 00	.....	6 00
Magnet	49 81	.....	49 81
Main	39 62	31 49	71 11
Malcolm	58 08	21 52	79 60
Malden	26 04	.....	26 04
Maple	24 04	.....	24 04
Mapledale	27 81	9 70	37 51
Maple Tree	28 50	.....	28 50
Maplewood	6 51	.....	6 51
Marsh	14 54	.....	14 54
Marble	67 36	.....	67 36
Marceline	189 05	46 26	235 31

TABLE No. 1—Continued.

Streets.	Cleaning. Rounding and Filling.	General Repairs.	Total.
Marcy	\$ 98 34	\$ 7 52	\$ 106 86
Marion	98 66	5 29	98 95
Marquart	43 29		43 29
Markham	8 43		8 43
Marquett	11 15		11 15
Martin	41 79		41 79
Markham		8 25	8 25
Marshall	22 25		22 25
Marvin	35 75	33 49	69 24
Mary	6 10	10 53	16 63
Mason	60 29	67 55	127 84
Mather	16 14		16 14
Mathew	10 82		10 82
Maud	5 25		5 25
Mayfield	52 02	57 81	109 83
Mayflower	24 08		24 08
May	18 04		18 04
McBride	92 10	12 00	104 10
McConnell	50 04		50 04
McKinstry	9 13	2 35	11 48
McCurdy	55 05		55 05
McKinley	33 73	8 24	41 97
McHenry	79 08	10 52	89 60
McLean		40 93	40 93
Mead	128 29	2 50	130 79
Meadow		85 45	85 45
Medina	29 04		29 04
Mecca	15 00	2 01	17 01
Mechanic	33 41	94	34 35
Melrose	36 49	27	36 76
Melbourne	23 30		23 30
Melvin	40 55	13 95	54 50

TABLE No. 1—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
Mentor.....	\$ 31 61	\$ 8 70	\$ 40 31
Merchant.....	168 05	25 85	193 90
Meridian.....	14 00		14 00
Merwin.....	35 75	80 80	66 55
Merkel.....	13 00		13 00
Merrill.....	12 31		12 31
Middle.....	7 00	94	7 94
Meyers.....	69 56	32 20	101 76
Miles ave.....	174 75	18 27	193 02
Miles Park.....	18 00	1 00	19 00
Milford.....	126 80	18 54	145 14
Millard.....		10 53	10 53
Mill.....	144 10	61 69	205 79
Milton.....	27 24	1 41	28 65
Minnesota.....	18 61	94	14 55
Minton.....	35 02	16 32	51 34
Minnie.....	24 18		24 18
Monroe.....	18 75	6 36	25 11
Mona.....	2 50		2 50
Montrose.....	53 08		53 08
Montgomery.....	22 51		22 51
Monumental Square.....		16 52	16 52
Moore.....	6 03	86 35	92 38
Mound.....	27 54	1 79	29 33
Mount.....		5 00	5 00
Morgan.....		2 50	2 50
Morse.....	6 00	13 42	19 42
Morton.....	29 79		29 79
Moulton.....	48 82	3 25	52 07
Morrison.....	20 02		20 02
Motley.....	10 00		10 00
Mullberry.....	36 84	32 80	69 64

TABLE No. 1—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
Muirson.....	\$ 60 79	\$ 28 59	\$ 89 38
Motley	12 00	.....	12 00
Munich	95 60	8 50	104 10
Myrtle.....	13 00	5 64	18 64
Mueller.....	24 28	.....	24 28
Mt. Vernon.....	27 00	.....	27 00
Newark.....	47 25	8 02	55 27
Newell.....	36 14	2 15	38 29
Newville.....	8 00	.....	8 00
Newton.....	24 04	.....	24 04
Nicola.....	5 00	.....	5 00
Nora	24 50	4 75	29 25
North .....	.....	1 41	1 41
Norton.....	34 56	1 41	36 97
Norwood.....	170 92	7 88	178 80
Novak	4 00	.....	4 00
Noyes.....	41 36	6 83	48 19
Nursery	53 04	1 50	54 54
Oak.....	28 00	.....	28 00
Oak Place.....	6 00	.....	6 00
Oakdale.....	62 33	43 94	106 27
Oakland.....	29 28	30 08	59 36
Ocean.....	20 02	1 88	21 90
Ohio.....	44 82	72 16	116 98
Old River.....	335 85	43 88	379 73
Olive.....	10 83	1 88	12 71
Oliver.....	14 90	.....	14 90
Ontario	52 62	209 15	261 77
Orange.....	57 57	37 98	95 55
Orohard.....	8 79	2 94	11 73
Oregon	234 84	9 40	234 24
Orleans	75 81	.....	75 81

TABLE No. 1—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
Orth.....	\$.....	\$ 3 74	\$ 3 74
Orwig.....	86 58	29 79	116 37
Osage.....	28 54	9 79	38 33
Osborne.....		2 60	2 60
Ottawa.....	26 83	13 51	40 34
Osmond.....	10 00		10 00
Outhwaite.....	45 06		45 06
Oxford.....	38 28		38 28
Pearl St. Yard.....	1,139 12	63 54	1,202 66
Paddock.....		5 70	5 70
Pearl.....	328 27	222 58	550 85
Pacific.....		4 76	4 76
Pallister.....	40 00		40 00
Park.....	35 01	17 39	52 40
Parker.....	45 79	8 04	53 83
Parkview.....	26 00		26 00
Parkwood.....	131 58	40 50	172 08
Patton.....	6 00		6 00
Payne.....	22 26	82 80	105 06
Peach.....	13 00	4 01	17 01
Pear.....	36 00	5 13	41 13
Pelton.....	30 04	17 95	47 99
Pembroke.....	5 00	13 04	18 04
Penn.....	45 79	2 35	48 14
Pennington.....	9 50		9 50
Perkins.....	49 74	47	50 21
Perun.....	21 02		21 02
Perry.....		28 14	28 14
Permits puddled.....		3,662 25	3,662 25
Petrie.....	461 62	129 30	590 92
Phillips.....	80 00		80 00
Phelps.....	21 39	94	22 33

STREETS.

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TABLE No. 1—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
Pier.....	\$ 7 50	\$.....	\$ 7 50
Pixley.....	25 53	.....	25 53
Pittsburg.....	90 32	19 98	101 30
Platt.....	.....	19 73	19 73
Plum.....	4 00	.....	4 00
Pollock.....	54 71	8 02	62 73
Poland.....	10 00	7 79	17 79
Poplar.....	56 34	21 46	77 80
Poe.....	22 50	2 82	25 32
Porter.....	36 54	.....	36 54
Portage.....	41 53	2 82	44 35
Prim.....	29 57	15 29	44 86
Pratt.....	6 50	.....	6 50
Prosser.....	14 29	.....	14 29
Professor.....	15 04	6 90	21 94
Prospect.....	52 50	129 84	182 34
Princeton.....	.....	1 41	1 41
Prescott.....	18 00	.....	18 00
Purdy.....	24 50	.....	24 50
Pulaski.....	35 28	13 51	48 79
Putnam.....	78 37	.....	78 37
Quebec.....	167 63	.....	167 63
Queen.....	12 90	1 88	14 78
Quimby.....	26 01	47	26 48
Quincy.....	22 78	40 76	63 54
Race.....	.....	10 00	10 00
Ranney.....	15 79	1 88	17 67
Randall.....	16 00	29 72	45 72
Randolph.....	40 77	.....	40 77
Ralph.....	8 60	.....	8 60
Rawlings.....	114 28	2 00	116 28
Ramsey.....	11 00	.....	11 00

TABLE No. 1—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
Rathbun.....	\$ 86 00	\$.....	\$ 86 00
Ray.....	11 04	19 99	31 03
Ravine.....	102 18	8 71	110 89
Raymond.....	30 00	13 51	43 51
Rayner.....	8 00	8 74	16 74
Reade.....	60 53	7 00	67 53
Reservoir.....	9 00	1 41	10 41
Reeves.....	15 00	.....	15 00
Reno.....	.....	2 50	2 50
Republic.....	15 04	30 98	46 02
Reynolds.....	56 82	2 01	58 83
Rhodes.....	268 48	181 73	440 21
Remington.....	40 00	.....	40 00
Richard.....	20 29	.....	20 29
Riehland.....	.....	47	47
Rice.....	10 00	.....	10 00
Ridge.....	104 33	20 18	124 51
Richmond.....	83 26	.....	83 26
Ritchie.....	29 38	.....	29 38
Ridge Road.....	10 51	.....	10 51
River.....	59	17 72	18 31
Riverside.....	10 75	.....	10 75
Roberts.....	.....	1 88	1 88
Robinson.....	53 79	.....	53 79
Rockert.....	33 15	.....	33
Rockford.....	11 27	.....	11
Rockwell.....	9 00	.....	9 00
Rockett.....	.....	5 25	5 25
Roland.....	.....	82 45	82 45
Root.....	97 06	19 30	116 36
Roseville.....	20 00	20 00
Rosedale.....	306 00	65 38	371 38

STREETS.

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TABLE NO. I—Continued.

Streets.	Cleaning. Rounding and Filling.	General Repairs.	Total.
Rosewood	\$ 21 12	\$ 5 79	\$ 26 91
Ross	7 79	13 51	21 30
Rossiter	12 63	.....	12 63
Rowley	58 20	38 07	96 27
Roy	72 83	.....	72 83
Ruggles	20 03	.....	20 03
Rural	53 04	.....	53 04
Russell	93 36	5 92	99 28
Ruskin	23 00	.....	23 00
Rutledge	7 00	47	7 47
Russia .....	.....	6 52	6 52
Ruth	2 50	.....	2 50
River and Harbor	2,909 72	.....	2,909 72
St. Paul	74 46	7 14	81 60
St. Clair	194 98	286 69	491 67
St. Stanislaus	20 53	7 00	27 53
Sackett	152 16	113 36	266 52
Sadie	7 57	.....	7 57
Sandusky	234 24	.....	234 24
Sanford	10 01	17 09	27 10
Sago .....	.....	2 82	2 82
Salisbury	48 83	50 53	99 36
Sargeant	25 04	.....	25 04
Sawtell	60 00	27 62	87 62
Sawyer	99 36	28 10	127 46
Sayles	143 00	.....	143 00
Schaeffer	44 79	.....	44 79
Schiller	65 39	.....	65 39
Schneider	2 50	.....	2 50
Schott	12 00	.....	12 00
Scott	43 79	7 05	50 84
Seovill	32 53	57 43	89 96

TABLE No. 1—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
Scranton.....	\$ 58 64	\$ 63 37	\$ 122 01
Seabrook	20 53		20 53
Secord.....	29 30		29 30
Seger	27 00		27 00
Seelye.....	37 78	5 86	43 64
Sears	24 75	7 89	32 64
Selden	99 83	27 02	126 85
Seltzer.....	23 03	20 30	43 33
Seneca.....	152 02	183 45	335 47
Seward	26 71	40 53	67 24
Seymour.....	82 71	40 32	123 03
Shale	11 75	8 02	19 77
Sherman.....		2 35	2 35
Sherbrook	11 27		11 27
Sheriff	18 69	57 22	75 91
Shepherd	38 28		38 28
Shirley.....		13 01	13 01
Siam	11 29	3 29	14 58
Sibley.....	12 30	24 47	36 77
Simon	14 50	6 00	20 50
Sixth		5 70	5 70
Sked.....	32 77		32 77
Skinner.....	66 81	4 00	70 81
Slater.....	41 52	1 88	43 40
Smith	8 74	2 64	11 38
Smithfield....	12 00	51 32	63 32
Solon.....	37 04	15 51	52 55
South.....	7 20		7 20
Sonora.....	12 64	94	13 58
South Dille.....	125 17		125 17
South Prospect	30 29		30 29
South Water		10 60	10 60

STREETS.

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TABLE NO. 1—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
South Willson.....	\$ 87 57	\$ 25 89	\$ 113 46
South Woodland	15 81	18 54	34 35
Southwood	30 00	.....	30 00
Southern.....	52 05	.....	52 05
Soweinski.....	35 28	94	36 22
Spangler	7 50	4 51	12 01
Spencer.....	6 94	.....	6 94
Spring	8 51	17 51	26 02
Spruce.....	5 00	20 59	25 59
Stafford.....	16 57	5 00	21 57
St. Stanislaus.....	9 00	7 00	16 00
Standard	11 00	.....	11 00
Stanley.....	11 14	.....	11 14
Star.....	.....	1 88	1 88
Stark.....	39 29	6 00	45 29
Starkweather.....	153 73	12 77	166 50
State	7 42	21 90	29 32
Sterling.....	121 36	18 28	139 64
Steinway	65 75	1 41	67 16
Stone's Levee.....	3 45	5 64	9 09
Stone.....	19 00	2 00	21 00
Storer.....	272 34	208 72	481 06
Streator	13 00	.....	13 00
Summit.....	161 51	94	162 45
Superior.....	639 20	299 78	938 98
Svoboda.....	1 50	15 30	16 80
Swan	11 01	.....	11 01
Swiss	39 03	15 98	55 01
Sweeny	33 00	.....	33 00
Sykora.....	35 04	34 60	69 64
Sycamore.....	.....	6 47	6 47
Superior St. Viaduct.....	.....	80 60	80 60

TABLE No. 1—Continued.

Streets.	Cleaning. Rounding and Filling.	General Repairs.	Total.
Tamworth.....	\$ 49 55	\$.....	\$ 49 55
Taylor.....	132 91	40 26	173 17
Tennis.....		1 88	1 88
Tennyson.....	6 00		6 00
Tennessee.....	19 72	27 96	47 68
Terrace.....	10 00		10 00
Territt.....	9 00		9 00
Third.....	39 26	3 00	42 26
Thornton	4 00		4 00
Tilden.....		2 73	2 73
Tioga.....	35 50	4 29	39 79
Todd.....	254 71	67 86	322 57
Track.....	33 04	1 41	34 45
Tracy.....	22 00	86 33	108 33
Train.....	111 08	33 97	145 05
Tremont.....	23 02	5 88	28 90
Trenton, East Side.....	34 05	2 00	36 05
Trot.....	51 08	29 01	80 09
Trowbridge.....	64 56	5 42	69 98
Trumbull.....	101 83	1 88	103 71
Tustin.....	20 75	94	21 69
Turn.....	12 31		12 31
Turney.....	320 30	6 92	327 22
Twenty-third ave.....	35 00	24 44	59 44
Union.....	200 77	29 61	230 38
University.....	78 32	39 73	118 05
Ursula.....	20 78	37 52	58 30
Upton.....	12 25		12 25
Valley.....	15 75		15 75
Vasin.....	13 75		13 75
Valentine.....	10 57		10 57
Varian.....	15 79		15 79

TABLE No. 1—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
Van Ness.....	\$.....	\$ 0 94	\$ 0 94
Van Buren	10 02	.....	10 02
Vega.....	42 54	14 41	56 95
Vergennes.....	34 53	.....	34 53
Vermont.....	66 87	32 10	98 97
Vestry	17 29	.....	17 29
Victor.....	23 04	.....	23 04
Vienna	26 00	.....	26 00
Vincent.....	.....	96	96
Vineyard.....	10 00	.....	10 00
Vistula	3 27	.....	3 27
Vivian.....	25 04	4 79	29 83
Violo	9 00	.....	9 00
Wabash.....	34 79	.....	34 79
Wade	26 84	.....	26 84
Wade Park ave.....	19 76	149 76	169 52
Wagman.....	19 08	.....	19 08
Wales.....	30 77	24 43	55 20
Wall	4 35	.....	4 35
Walker.....	43 28	.....	43 28
Walnut	128 91	11 24	140 15
Wals.....	21 62	.....	21 62
Walton ave.....	24 50	7 52	32 02
Walworth Run.....	6 51	20 65	27 16
Ward	10 00	47	10 47
Warden.....	9 83	.....	9 83
Ware	18 00	.....	18 00
Waring	31 20	3 29	34 49
Warner Road.....	237 12	47 45	284 57
Warren	75 30	117 13	192 43
Warwick	8 53	.....	8 53
Washington	123 05	59 19	182 24

TABLE No. 1—Continued.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
Wason.....	\$ 37 78	\$ 7 52	\$ 45 30
Water.....		35 01	35 01
Waterloo.....		22 37	22 37
Watterson.....		11 49	11 49
Waverly.....	79 88	46 31	126 19
Webster.....	7 14	15 86	23 00
Weckerling.....	113 44		113 44
Weddell.....	161 47	1 41	162 88
Weimer.....	30 68	94	31 57
Wentworth.....	10 00		10 00
Wellington.....	124 17	23 45	147 62
West Center.....		4 70	4 70
West Clinton.....	11 00		11 00
West Madison.....	483 22	126 32	609 54
West River.....	320 67	134 28	454 95
Western.....	26 00		26 00
Wheatland.....	9 00		9 00
Westlake.....	46 96		46 96
White.....	32 16	2 76	34 92
Whitehead.....	4 75		4 75
Whitman.....	23 56	4 95	28 51
Whitney.....	9 58	94	10 52
Wilcox.....	5 00		5 00
Wilbur.....	23 00		23 00
William.....	42 06		42 06
Wyman.....	38 04		38 04
Willard.....	28 00	94	28 94
Willey.....		45 83	45 83
Willowdale.....	31 29	2 35	33 64
Willet.....	49 79	2 82	52 61
Willson.....	312 73	168 23	480 96
Winslow.....	12 78	16 01	28 79

STREETS.

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TABLE No. 1—Concluded.

Streets.	Cleaning, Rounding and Filling.	General Repairs.	Total.
Wire.....	\$ 40 00	\$.....	\$ 40 00
Wood.....		1 41	1 41
Woodbine.....	32 00	7 99	39 99
Woodbridge.....	8 50	27 92	36 42
Woodland.....	238 36	226 45	464 81
Woodland Hills ave.....	1,099 47	130 61	1,230 08
Woolsey.....	233 43	35 18	268 61
Worley.....	47 70	15 81	63 51
Worthington.....	3 48		3 48
Woodridge.....	17 00		17 00
Wyoming.....	9 30	6 01	15 31
Wright.....	15 00		15 00
Yates.....	1 50	13 51	15 01
Yeakei.....	52 05	2 35	54 40
York.....		10 97	10 97
Yonker.....	28 51		28 51

TABLE NO. 2.

CLEANING PAVED STREETS.

		Cost.
FIRST DISTRICT.		
Streets cleaned, 14,163.78 squares—803.65 miles		\$24,479 66
SECOND DISTRICT.		
Streets cleaned, 30,416.29 squares—1,545.25 miles		20,948 85
THIRD DISTRICT.		
Streets cleaned, 11,813.06 squares—912.01 miles		15,184 53
Cost of Inspection		1,137 50
Total cost.....		\$61,750 54

NOTE.—1 square—10,000 square feet.

TABLE No. 3.

WORK DONE BY STREET DEPARTMENT BY ORDER OF
THE SUPERINTENDENT AND CHARGED DIRECTLY
TO THE VARIOUS SEWER DISTRICTS.

District.	Streets.	Mason Repairs and Flushing Sewers.	Paving Gutters and Paving Repairs.
No. 1	Case, opposite Snyder.....	\$ 6 21	\$.....
"	Case and Payne.....	3 07	.....
"	Case and C. & P. track.....	6 76	.....
"	Clifton	14 02	.....
"	Central, opp. Putnam.....	27 04	18 92
"	Euclid and Kennard.....	14 81	.....
"	Euclid, opp. 1000.....	48 08	15 86
"	Forest	16 27	.....
"	Hamilton and Case.....	1 40	.....
"	Kennard and Prospect.....	61 10	.....
"	Kelly and Dayton.....	23 73	.....
"	Kennard and Cedar.....	54 04	.....
"	Lawrence.....	10 52	.....
"	Livingstone No. 2.....	14 02	4 51
"	Lake	14 02	.....
"	McHenry.....	58 64	.....
"	Putnam.....	9 21	.....
"	Prospect.....	56 08	4 95
"	St. Clair.....	52 44	.....
"	Superior	6 76	4 95
"	Scovill and Kennard .....	.....	4 94
"	Woodland	65 74	13 10
"	Wason.....	39 31	.....
"	Alabama.....	97 75	.....
"	Dodge	56 08	.....
"	Greenwood.....	98 14	.....

TABLE NO. 3—Continued.

District.	Streets.	Mason Repairs and Flushing Sewer.	Paving Gutters and Paving Repairs.
No. 2	Hamilton.....	\$ 40 56	.....
"	Huntington.....	1 84	.....
"	Irving.....	28 04	.....
"	Lawrence.....	28 04	.....
"	Longwood.....	7 00	5 17
"	Lake, 840.....	1 00	.....
"	Ontario.....	.....	14 84
"	Oregon.....	14 02	.....
"	Superior.....	13 52	.....
No. 3	Academy.....	14 84	.....
"	Bank.....	14 02	14 84
"	Bond.....	28 04	.....
"	Broadway, 327.....	.....	9 90
"	Bolivar.....	13 68	9 02
"	Canal.....	84 12	.....
"	Central.....	43 06	.....
"	Court Place.....	5 26	.....
"	Chestnut.....	14 02	4 96
"	Champlain.....	29 40	5 40
"	Cross.....	66 54	4 96
"	Dodge.....	24 48	.....
"	Euclid.....	8 33	9 44
"	Erie.....	9 38	24 10
"	Fahnam Alley.....	9 76	.....
"	Factory.....	61 34
"	Harrison.....	14 02
"	Handy.....	6 26
"	Hickox.....	1 50
"	High.....	29 73
"	Lake.....	1 69

STREETS.

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TABLE NO. 3—Continued.

District.	Streets.	Mason Repairs and Flushing Sewers.	Paving Gutters and Paving Repairs.
No. 3	Lake View Park.....	\$ 314 75	\$.....
"	Muirson.....	32 56	.....
"	Middle.....	10 52	.....
"	Ontario.....	77 32	.....
"	Oregon.....	3 07	.....
"	Payne.....	.....	8 40
"	Prospect, 106.....	14 34	.....
"	Public Square.....	4 26	.....
"	Rockwell and Bond.....	7 01	4 51
"	Seneca.....	4 26	.....
"	Stone's Levee.....	16 19	.....
"	Summit.....	32 37	.....
"	Sheriff.....	5 39	5 17
"	St. Clair.....	14 49	.....
"	S. Water.....	62	.....
"	Superior.....	5 26	.....
"	Walnut.....	64 95	.....
"	Woodland.....	3 26	2 10
No. 4	Aust.....	14 02	.....
"	Bailey Ct.....	13 52	.....
"	Bridge.....	8 52	.....
"	Columbus.....	23 04	10 53
"	Detroit.....	3 12	.....
"	Franklin.....	5 00	9 89
"	Green and Lorain.....	16 18	.....
"	Jefferson.....	8 02	.....
"	Jersey	30 36	.....
"	Lorain.....	6 76	.....
"	Merwin.....	46 96	.....
"	Superior Viaduct.....	4 94	.....

TABLE No. 3—Continued.

District.	Streets.	Mason Repairs and Flushing Sewers.	Paving Gutters and Paving Repairs.
No. 4	West River.....	\$ 5 00	\$ 96 01
No. 5	Courtland.....	56 08	.....
"	Detroit.....	.....	9 46
"	Ellen.....	3 88	.....
"	Franklin.....	106 12	2 07
"	Gordon.....	12 29	.....
"	Harbor.....	12 79	.....
"	Kentucky.....	28 04	.....
"	Merwin.....	12 28	.....
"	Old River.....	119 22	.....
"	Orchard	30 43	.....
"	Woodbine.....	18 44	.....
"	Weddell	12 02	.....
"	Vermont	23 70	.....
No. 6	Irving.....	10 52	.....
"	Pittsburg.....	79 39	.....
No. 7	Cedar.....	155 83	.....
"	Central.....	66 74	.....
"	Clarkwood.....	14 02	.....
"	Dibble.....	3 29	.....
"	Dunham.....	63	.....
"	Edna	14 04	.....
"	Euclid.....	1 00	.....
"	Harriett.....	56 08	.....
"	Herald	194 66	.....
"	Hough.....	4 00	.....
"	Front.....	23 52	.....
"	Kinsman	7 64	.....

TABLE NO. 3—Continued.

District.	Streets.	Mason Repairs and Flushing Sewers.	Paving Gutters and Paving Repairs.
No. 7	Lexington	\$ 43 37	\$.....
"	Luther	8 25	15 36
"	Olive	3 01	.....
"	Pier	21 04	.....
"	Quincy	28 04	.....
"	Russell	17 09	.....
"	St. Clair	58 07	.....
"	Standard	1 75	.....
"	Superior	74 11	4 95
"	Slater	28 04	.....
"	Sixth	6 01	.....
"	Sanford	14 02	.....
"	Willson	67 80	.....
"	White	28 04	.....
"	Woodland	38 83	15 78
No. 8	Main	15 99	.....
"	North	6 76	.....
"	Spruce	12 43	.....
"	Vermont	119 54	.....
No. 9	Broadway, Old	6 76	.....
"	Canal	83 12	.....
"	Champlain	5 26	.....
"	East River	14 27	.....
"	Elm	10 62	.....
"	Front	4 15	.....
"	Howe .....	.....	7 42
"	Meadow	16 28	30 25
"	Michigan	6 01	.....
"	St. Clair .....	.....	4 51

TABLE No. 3—Continued.

District.	Streets.	Mason Repairs and Flushing Sewers.	Paving Gutters and Paving Repairs.
No. 9	South Water.....	\$ 19 54	\$
"	Spring	21 04	.....
"	Superior	32 87	9 90
"	Water	49 08	.....
No. 10.....	College	21 04	.....
"	Jefferson	40 37	.....
"	Seneca.....	20 05	.....
"	University.....	304 94	.....
No. 11.....	Agnes Court.....	21 57	.....
"	Buhrer	14 02	.....
"	Fairfield.....	56 08	.....
"	Jefferson	16 19	9 90
"	Jennings	16 67	6 75
"	Scranton	72 04	4 95
"	University.....	28 04	.....
"	Walworth Run street.....	429 86	.....
No. 12.....	Aikin.....	2 00	.....
"	Clark	33 25	.....
"	Daisy	13 97	.....
"	Lewis	9 04	.....
"	Newark	54 09	.....
"	Pearl.....	59 58	2 48
"	Rhodes	40 56	.....
"	Walton	56 08	.....
"	Walworth Run street.....	153 16	.....
No. 13.....	Alger.....	37 04	.....
"	Barrett	53 83	.....

TABLE No. 3—Continued.

District.	Streets.	Mason Repairs and Flushing Sewers.	Paving Gutters and Paving Repairs.
No. 13.....	Basetta.....	\$ 14 02	.....
"	Davis	14 02	.....
"	Detroit	17 98	.....
"	Dove Lane.....	14 02	.....
"	Franklin	21 58	.....
"	Gordon	26 75	.....
"	Goulder	16 89	.....
"	Hillside	14 02	.....
"	Lawn.....	49 08	.....
"	Ramsey	14 02	.....
"	Scovill Lane....	7 01	.....
"	West Madison.....	53 86	.....
No. 14.....	B	32 36	.....
"	Catawba.....	42 06	.....
"	Croton .....	.....	2 25
"	Colfax .....	.....	4 95
"	Dickerman	10 52	.....
"	Forest	13 78	.....
"	Grand	14 02	.....
"	Gladstone	6 89	.....
"	Herald	60 34	.....
"	Julia	28 04	.....
"	Juston .....	.....	4 95
"	Kinsman	5 38	.....
"	Myrtle Court	14 02	.....
"	Sawtell	31 56	.....
"	Sweeny	3 40	.....
No. 15.....	Ansel	10 52	.....
"	Atlantic	181 70	.....

TABLE NO. 3—Continued.

District.	Streets.	Mason Repairs and Flushing Sewers.	Paving Gutters and Paving Repairs.
No. 15.....	Aumer Court	\$ 5 50	.....
"	Becker Place	28 04	.....
"	Cedar	3 07	.....
"	Central	1 39	.....
"	Dellenbaugh	16 50	.....
"	Davis Street Yards	3 51	.....
"	Deering	20 05	.....
"	Ehard	1 26	.....
"	Edwards	31 11	.....
"	East Madison	139 49	.....
"	Euclid	97 59	14 04
"	Genesee	76 28	30 56
"	Giddings Brook	52 24	.....
"	Glen Park Place	47 06	.....
"	Hodge	23 04	.....
"	Holton	23 80	.....
"	Haddock	6 76	.....
"	Hough	4 14	.....
"	Kennedy	33 06	.....
"	Kinsman	31 27	.....
"	LeRoy Place	29 26	.....
"	Lincoln	29 42	.....
"	Logan	14 02	.....
"	Munich	14 02	.....
"	Melvin	2 00	.....
"	Minerva	14 04	.....
"	Morse	4 00	7 41
"	Platt	26 04	.....
"	Prospect	31 42	.....
"	Quincy	80 91	.....
"	Roy	22 54	.....

TABLE No. 3—Continued.

District.	Streets.	Mason Repairs and Flushing Sewers.	Paving Gutters and Paving Repairs.
No. 15.....	St. Clair.....	\$ 626 90	.....
"	Superior	9 39	9 02
"	South Logan.....	3 97	.....
"	South Woodland .....	.....	10 96
"	West Lake	10 53	.....
"	Van Ness.....	6 13	.....
"	West Park.....	24 04	.....
"	Woodland Hills ave	77 93	.....
"	Woodland ave.....	16 63	.....
No. 16.....	Biglow	34 55	.....
"	Buckley	12 16	.....
"	Burton .....	.....	9 90
"	Clark	12 48	.....
"	Gilbert	28 04	.....
"	Milford.....	28 04	.....
"	Ridge	55 85	.....
"	Swiss	17 86	.....
"	Train	3 37	.....
No. 17.....	Broadway	37 77	4 20
"	Broadway (old).....	12 02	.....
"	Dolloff	4 00	.....
"	Douse	14 02	.....
"	Fenn	1 40	.....
"	Forest	36 05	.....
"	Hamm.....	12 29	.....
"	Hooker	10 52	.....
"	Independence	11 00	.....
"	Kinsman .....	.....	4 51
"	Meade	6 01	.....

TABLE No. 3—Continued.

District.	Streets.	Mason Repairs and Flushing Sewers.	Paving Gutters and Paving Repairs.
No. 17.....	Petrie.....	\$ 10 52	\$.....
"	Union	6 14	.....
"	Willson.....	6 01	.....
"	Weckerling	9 09	.....
No. 18.....	Axtell.....	14 02	.....
"	Broadway.....	79 11	.....
"	Fullerton.....	14 02	.....
"	Harvard.....	44 44	.....
"	Jones.....	6 76	.....
"	Marcelline.....	8 29	.....
"	Oakdale.....	28 53	.....
No. 19.....	Weimer.....	21 81	.....
No. 20.....	Archer.....	20 00	.....
"	Beulah.....	44 13	.....
"	Lake View ave.....	15 00	.....
"	McKinley	15 00	.....
"	Murray Hill.....	21 55	.....
"	Oakland.....	44 10	.....
"	Superior.....	35 83	.....
"	Walnut.....	.....	10 77
No. 21.....	Chestnutdale.....	6 79	.....
"	Clarion	26 78	.....
"	Mapledale	6 79	.....
"	Melvin.....	4 25	.....
"	Willowdale.....	6 01	.....
"	Woodbridge.....	16 02	.....

TABLE No. 3—Concluded.

District.	Streets.	Mason Repairs and Flushing Sewers.	Paving Gutters and Paving Repairs.
Commercial...	Berg.....	\$ 5 50	\$.....
"	Cross	24 54	.....
"	Commercial.....	44 83	.....
"	Fourth.....	6 14	.....
	Totals.....	\$ 7,951 72	\$ 525 93
Total of Table No. 3.....			\$ 8,477 65

TABLE No. 4.

WORK DONE BY CONTRACTORS REPAIRING SEWERS

on Orders from Superintendent of Streets, and Charged
Directly to Sewer Districts (no part taken
from Street Fund).

Sewer District.	Streets.	Breaks on Sewers.
No. 1	Central and Putnam.....	\$ 21 00
"	Kennard and Portland	12 79
"	Kennard and Scovill.....	42 30
"	Osborn 202.....	37 50
"	Prospect 907	30 95
"	Sibley 555.....	28 00
"	Superior and Lyman	30 36
"	Merchandise for district.....	44 20
	Total	\$ 266 10
No. 2	Alabama, foot of street.....	\$ 609 89
"	Dennison, West of Jennings	99 89
"	Payne and Hazard.....	24 36
"	Scovill and Longwood.....	39 90
"	Woodland	30 56
	Total	\$ 864 60
No. 3	Berg and Cross.....	\$ 47 78
"	Bond and Rockwell	13 06
"	Bolivar 130	30 40
"	Bolivar and Erie	27 87
"	Champlain 235.....	18 86
"	Champlain and Ontario.....	49 50
"	Dodge and Chestnut.....	25 42
"	Erie 402.....	24 06
"	Handy 112.....	26 91

TABLE NO. 4—Continued.

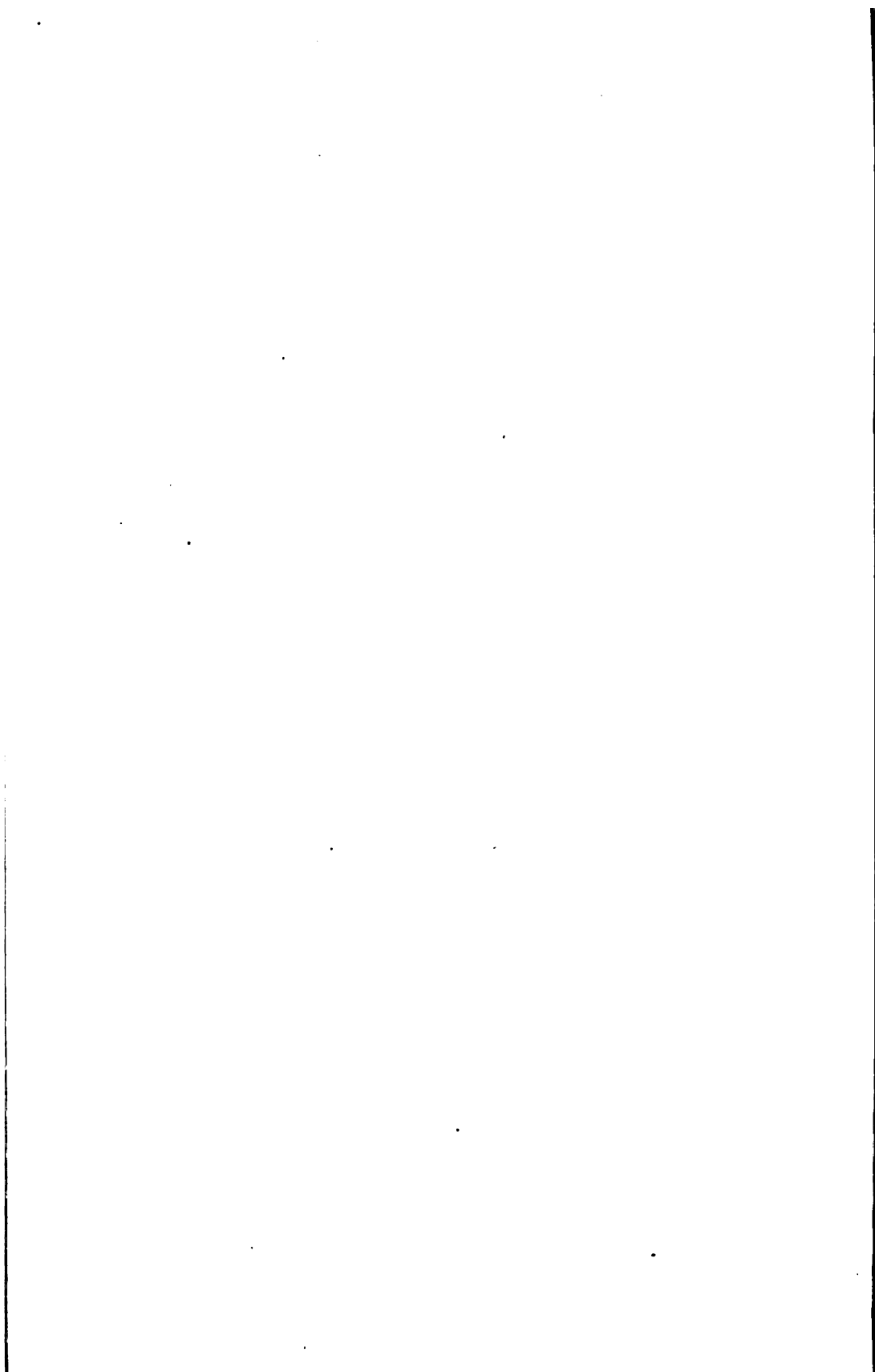
Sewer District.	Streets.	Breaks on Sewers.
No. 3	Handy 110.....	\$ 29 67
"	High and Sheriff	42 68
"	Jennings, between Fairfield and Kennelworth	24 15
"	Ontario 55	36 75
"	Prospect and Sheriff.....	23 75
"	Prospect 106.....	47 70
"	Prospect 255.....	17 65
"	St. Clair and Erie	18 87
"	Summit and Ontario.....	248 50
"	Woodland	18 87
"	Merchandise.....	216 98
	Total	\$ 990 05
No. 4	Columbus and Lorain	\$ 39 01
"	Columbus and Franklin	32 25
"	Pearl 260	42 06
"	West River, near Columbus.....	707 32
"	Merchandise	90 72
	Total	\$ 911 36
No. 6	Merchandise.....	\$ 1 37
	Total	\$ 1 37
No. 7	Cedar, at Standard S. M. Co.....	\$ 42 10
"	Kinsman	42 95
"	Luther 74.....	6 50
"	Superior and Sherbrook.....	38 25
"	Willson 1273.....	11 95
"	Woodland and Sawtell	35 00
"	Woodland and Lees Court.....	35 25
"	Woodland, at Workhouse	195 00
"	Merchandise	38 93
	Total.....	\$ 445 93

TABLE NO. 4—Continued.

Sewer District.	Streets.	Breaks on Sewers.
No. 8	Merchandise	\$ 13 86
	Total	\$ 13 86
No. 9	Howe	\$ 29 98
"	Spring and St. Clair	20 90
"	Superior and West River	22 90
"	Merchandise	35
	Total	\$ 74 13
No. 11	Seranton and Barber	\$ 58 04
"	University and Cliff	187 50
"	Merchandise	7 00
	Total	\$ 252 54
No. 12	Woodbridge 57, 63	\$ 11 80
"	Merchandise	16 36
	Total	\$ 28 16
No. 13	Pearl Street Yard	\$ 61 57
"	Merchandise	14 67
	Total	\$ 76 18
No. 14	Merchandise	\$ 16 42
	Total	\$ 16 42
No. 15	Bolton 150	\$ 39 10
"	Cedar and East Madison	46 50
"	Oakdale and Quincy	36 40
"	Superior and Hodge	38 66
"	St. Clair and Becker	92 95
"	St. Clair 1960	88 25

TABLE No. 4—Concluded.

Sewer District.	Streets.	Breaks on Sewers.
No. 15.....	St. Clair 1916	\$ 40 10
"	St. Clair 1955	38 45
"	South Woodland 198.....	32 12
"	Merchandise	225 86
	Total.....	\$ 673 39
No. 16.....	Burton and Bailey	\$ 27 85
"	Swiss 17	39 11
"	Merchandise	10 19
	Total.....	\$ 77 15
No. 17.....	Merchandise	\$ 6 67
	Total.....	\$ 6 67
No. 18.....	Merchandise	\$ 11 40
	Total.....	\$ 11 40
No. 20.....	Merchandise	\$ 2 55
	Total.....	\$ 2 55
No. 21.....	Merchandise	\$ 4 46
	Total.....	\$ 4 46
Commercial ..	Commercial and Hill.....	\$ 65 63
" ..	Merchandise	6 50
	Total.....	\$ 72 13
	Total for all districts.....	\$4,780 45



DEPARTMENT OF PUBLIC WORKS.

(THIRD DIVISION.)

Report of the Chief Engineer.

Report of Chief Engineer.

HON. GEORGE R. WARDEN,
Director of Public Works.

DEAR SIR:—I respectfully submit my annual report of the work in this the third division of the Department of Public Works for the year ending December 31st, 1898.

The work in detail will be found in the 22 tables appended. These tables are, for convenience in reference, compiled in the same order as to subjects treated and as to numbering of tables as in my three preceding annual reports.

There is, however, a class of work in the engineering department of every city that can only be referred to in an annual review of this character and cannot be given just credit for the amount of work done. This embraces engineering work in endless variety, in field and office, draughting work of every description, and work done by the clerical force, the magnitude or measure of which can neither be summed up, tabulated nor given proper credit for work done, so that one year may be fairly compared with another.

Another class, known as contract work, has a money value and in amount, kind and quality the year's work is easily compared with that of any other year.

The total amount expended for contract work of all kinds in this department during 1898 is \$1,508,135.62. This amount is \$63,692.49 greater than for the year 1897 and \$896,589.69 greater than for the year 1896.

The amount of paving work done during the year is more than 100 per cent. greater than for similar work done in 1897 and more than 200 per cent. greater than in 1896.

The aggregate cost of sewers constructed in 1898 also shows a marked increase over the two preceding years. This

aggregate cost is more than 50 per cent. greater than the cost of 1897 and more than 300 per cent. greater than for 1896.

The aggregate cost of grading and curbing also exceeds the cost of similar work done in 1897 by more than 200 per cent. and by more than 50 per cent. the cost for 1896.

In miscellaneous work, which includes bridges, docks and dredging, street lighting, etc., the amount expended is \$360,994.56. This amount, while greater than for 1896, is one-half less than for this class of work done in 1897, owing to the fact that no river widening was done this year, while in 1897 this item alone added the sum of \$376,583.86 to the miscellaneous work for that year.

For a better understanding of the various improvements of the year the several kinds of work will be referred to separately.

STREET PAVING.

Sixty streets were paved or repaved during the year, at an aggregate cost of \$495,906.11. This amount represents 257,351 square yards, or 17.2 miles.

Of these sixty streets, eleven were paved with asphalt at a cost of \$131,935.03, and represent 51,690 square yards, or 3.32 miles; seven streets were paved with Medina common stone at a cost of \$42,010.92, amounting to 14,855 square yards, or 1.09 miles; five streets were paved with Medina block stone at a cost of \$36,432.09, covering 140,680 square yards, or 1.44 miles. The balance, or thirty-seven streets, were paved with brick at a cost of \$285,528.14, aggregating 176,738 square yards and 11.34 miles.

The principal streets paved during the year with asphalt are Bank street, from Superior street to a point 295 feet north of Lake street; Seneca street, from Superior street to St. Clair street; Scranton avenue, from Clark avenue to Pearl street, and Ontario street, from Lake street to Summit street, and from Factory street to Central avenue. Ridge avenue, from Lorain street to Dennison avenue; and Woodland avenue, from Factory street to Central avenue, were commenced, but owing to the lateness of the season the work is not completed but will be finished early next season. Murray Hill avenue, from Adelbert street to Mayfield road, so long under contract,

was completed during the year. This work was long delayed by reason of a disagreement between the property owners and the Cleveland Electric Railway Company. The company desired to remove its tracks and abandon the street but were restrained in court from doing so. An agreement was reached early in the summer between the parties by which the tracks were removed from the street and the width of the roadway reduced from 36 to 30 feet, the company paying the property owners an amount equal to the first three payments made by the property owners and the cost of paving a space eight feet wide in the central portion of the roadway. This settlement, apparently satisfactory to all parties, has provided a beautiful thoroughfare, but without street car facilities as heretofore.

All asphalt pavements laid by the city during this year, as heretofore, are sheet asphalt, and previous to 1898 had been done by the Warren-Scharf Asphalt Paving Company. All of this company's work during this, as in previous years, was laid with Trinidad pitch lake asphalt. This year Bank street, Seneca street and that portion of Ontario street between Factory street and Central avenue were paved with California Alcatraz asphalt, laid by the Alcatraz Construction Company. It is understood that Trinidad land asphalt is to be used upon Ridge and Woodland avenues, now under contract with the Claflen Paving & Contracting Company.

The introduction of active competition in asphalt bidding has resulted in a reduction of nearly or quite 40 per cent. in prices which heretofore prevailed for this class of work.

The rapid progress made in brick paving in this and other cities has caused a marked decrease in prices bid for both brick and common stone pavements. Bids received late in the season for stone pavements show a reduction of fully 20 per cent below former prices paid.

The increasing popularity of brick pavements, by reason of their cheapness, smooth, even surface, fairly good foothold for the horse, and a faith that such pavements will have fair lasting qualities, is likely to result in the continued decrease of stone pavements except for streets of the heaviest traffic, and even here there is a growing tendency to cheapen work.

To substitute a cheaper pavement in places where only the best can long survive simply because the former is cheaper

in price is false economy, and official sentiment should stand squarely against it. The amount and kind of traffic should alone determine the kind of pavement to be used upon any street.

Among the block stone pavement laid during the year are Alabama street, from St. Clair street to the L. S. & M. S. Ry. tracks; Willson avenue, from Bower street to Broadway—the latter being the completion of a contract from last year—and the widening of the roadway on Prospect street five feet on each side, from Erie street to Brownell street, thereby greatly aiding the traffic upon this rapidly growing thoroughfare.

The more important of the common stone pavements laid in 1898 are Scranton avenue, from Seneca street to Cliff street, a repaving which was greatly needed, and Lane street from Commercial street to Cross street. Among the alleys paved are Atlas, Beta, Cross and Fountain alleys, all of which are greatly improved by paving, as some are changed from unsightly and unsanitary passageways to useful and healthful thoroughfares. This treatment should be extended to every alley and court in the down-town districts.

Asphalt pavements are always laid upon a concrete foundation, but in this city it is only in rare instances that stone and brick pavements are so laid. The exceptions this year are the brick pavement laid upon Wade Park avenue, from Norwood street to the Park Boulevard, and upon Dunham avenue from Hough avenue to Wade Park avenue. Upon these six-inch concrete foundations were used, owing to the presence of double-track street railroads on these streets, where travel is thrown to the sides of the roadway and within narrow limits.

The following are among the principal brick pavements laid during the year: Wade Park avenue, from Norwood street to the Park Boulevard; Dunham avenue, from Hough avenue to Wade Park avenue; Oliver street, from Euclid avenue to Superior street; Putnam street, from Central avenue to Scovill avenue; Republic street, from Euclid avenue to Lamont street; Streator avenue, from Cedar avenue to Quebec street; Lincoln avenue, from Quincy street to Woodland avenue; Bolton avenue, from Quincy street to Woodland avenue; Literary street, from Herschel street to Merchant

avenue; Holmden avenue, from Pearl street to Jennings avenue; Fairfield street, from Jennings avenue to Pelton avenue; Harbor street, from Lorain street to Ravine street; Jersey street, from Fulton street to Monroe street; Woodbridge avenue, from Pearl street to Rhodes avenue, and West Clinton street, from Waverly avenue to Gordon avenue.

All paving bricks used during the year were 5 inches in depth, as in the last few years, and were generally about $3\frac{1}{2}$ inches wide by $8\frac{3}{4}$ to $9\frac{1}{4}$ inches long. All such bricks are made with raised letters upon one side only, with a half round recess across each end, to secure a cement joint upon each side of every brick laid and a dowel joint across each end when the pavement is laid and filled, as is our custom in all cases.

All brick pavements laid during the year, with a few exceptions, have the joints filled with some kind of Portland cement and lake sand mixed in equal proportions and used as a grout. The cement most used the past season has been Saylor's Portland. The grout is often mixed upon the street as needed, but is also largely prepared by a local firm, where the sand is heated and dried, screened and mixed by proper machinery in the proportion of one part of cement to one of sand, and is kept in paper bags in stock ready for use upon the street. This mixture is called "Fillatite" by the firm preparing it.

These Portland cement fillers have in nearly every instance shown most excellent results, but to secure this the very best material must be used and then the street must be kept rigidly closed to all travel for from 10 to 20 days until the cement has fully set. Hot asphaltic cement, used so many years in our pavements, has also been used during the year, but not to the same extent as formerly. This cement, at its best, is an excellent filler and can often be used where Portland cement cannot be, as the former sets in an hour or less and the street can be at once opened to traffic.

No wood pavements, except occasionally on our viaducts, have been laid for many years. Of the many miles of this pavement laid in former years only one such pavement is to be found in the city at this time; what remains of this one is upon Kinsman street, from Woodland Hills easterly to the city limits, a distance of about a third of a mile. This is soon

to be replaced by a better pavement. This will end one of the most expensive experiments ever tried in this city. Wood pavements were laid almost continuously from 1866 to 1876, and even after their lack of durability was fully demonstrated a powerful combination was able to put them down for some years afterward. Prospect street, from Erie street to Perry street, was the first and, by a strange coincidence, was the last street to be paved with wood in this city.

All pavements are laid under a guaranty for a term of years specified in each contract. The term for asphalt pavements is 10 years from the date of the final estimate, with ten per cent. of the entire cost retained by the city to the end of the term of guaranty.

In the case of stone pavements the term is five years, and for brick pavements three years from date of final estimate. The sum of two and one-half cents per square foot upon all brick and stone pavements laid is retained by the city to the end of the term.

All guaranty funds are deposited with certain interest-paying banks of the city and are paid to the contractors, with all accrued interest, at the expiration of the term of guaranty, provided all repairs have been made by them as required. In only two or three instances in all the years since guarantees have been required by the city has any contractor neglected to make the repairs when properly notified.

The quality of all paving work done during the year has been fully up to the standard of previous years.

The following table of average prices paid during each year for each kind of pavement laid during the past six years is interesting. But for purposes of comparison, one year with another, is of little value unless a complete analysis is made of each street paved in any one year to ascertain the cause of fluctuations in prices which, as will appear from the table, have little or no relation to the volume of work done:

TOTAL NUMBER OF SQUARE FEET OR YARDS, WITH AN AVERAGE PRICE, OF THE DIFFERENT KINDS OF PAVEMENT LAID, EXCLUSIVE OF GRADING, CURBING, ETC., DURING THE YEARS OF
1893 TO 1898 INCLUSIVE.

Kind.	Total Number of Square Feet or Yards.	Average Price.
1893.		
Brick.....	834,215.3	13¢ per square foot.
Dressed Block.....	1,820,569.9	29.54¢ " " "
Common Medina.....	322,815.3	20.36¢ " " "
Asphalt.....	36,180.2	\$2.95 " " yard.
Old Common Medina.....	68,713.2	14.44¢ " " foot.
1894.		
Brick.....	725,498.3	10.74¢ per square foot.
Dressed Block.....	708,645.3	27.89¢ " " "
Common Medina.....	236,528.5	21.29¢ " " "
Asphalt.....	3,256.1	\$2.85¢ " " yard.
Old Common Medina.....	17,476.4	12.74¢ " " foot.
1895.		
Brick.....	765,210.2	10.55¢ per square foot.
Dressed Block.....	1,214,799.7	30.43¢ " " "
Common Medina.....	524,240.44	21.56¢ " " "
Asphalt.....	3,388.5	\$2.07 " " yard.
1896.		
Brick.....	474,323.1	12.49¢ per square foot.
Dressed Block.....	32,325.7	27.47¢ " " "
Common Medina.....	131,731.8	19.02¢ " " "
Asphalt.....	16,286.2	\$2.55¢ " " yard.
Old Common Medina.....	6,141.2	14.89¢ " " foot.

Kind.	Total Number of Square Feet or Yards.	Average Price
1897.		
Brick.....	858,152.1	13.31¢ per square foot.
Dressed Block.....	249,860.4	25.10¢ " " "
Asphalt.....	10,392	\$2.87 " " yard.
Old Common Medina....	103,095.8	14.05¢ " " foot.
1898.		
Brick.....	1,584,663.1	13.20¢ per square foot.
Dressed Block.....	61,468	24.80¢ " " "
*Common Medina.....	109,000	26¢ " " "
Asphalt.....	41,296.9	\$1.661 " " yard.
Old Common Medina....	23,689.3	13.17¢ " " foot.

* Contractor paid four cents per square foot for the old stone paving taken up.

The prospective paving for 1899 includes forty-five streets now under contract; upon eight or more of these work was in progress at the close of the season and will be resumed early in the spring. This work will amount to \$349,345.00 and will be 10.7 miles in length.

Upon fifty-one other streets the tax for paving has been assessed and partly collected. This work is also expected to be done the coming summer, making ninety-six streets to be paved during 1899. These streets, with the forty-five streets now under contract, represent about 26 miles and are estimated to cost \$896,488.00.

The amount of street paving in the city at the close of the year 1898 is substantially as follows (it will be remembered that the repaved streets cannot be added to the list, as the same streets have been added to the list in former years):

Asphalt (sheet).....	148,507 sq. yards =	7.25 miles
Medina stone.....	2,158,784 "	= 90.71 "
Brick.....	836,967 "	= 49.72 "
Wood paving.....	7,347 "	= .33 "
McAdam paving stone and cinder.....	15,488 "	= .73 "
Cobble stone.....	473 "	= .05 "
Miscellaneous.....	13,739 "	= .67 "
Totals.....	3,181,305 "	= 150.71 "

GRADING AND CURBING.

Sixteen streets were graded or graded and curbed during the year at a cost of \$19,989.92, amounting to 3.45 miles. This amount is more than double the work done in 1897 and is more than one-half greater than that done in 1896. Medina stone crosswalks, 18 inches wide by 5 inches thick, are laid on all curbed streets, at cross and intersecting streets, and at intermediate points in long blocks.

Three-inch sawed stone flagging is laid connecting all such walks with the regular flagged walks of the street.

The prospective grading and curbing for 1899 embraces nineteen streets, estimated to cost \$29,964.00, and represents 4.3 miles. This cost is one-half greater than the cost of similar work done the present year and is more than three times greater than that class of work in 1896.

SEWERS AND DRAINS.

The cost of sewer work of all kinds done during 1898 is \$631,345.12. This embraces sewers built in ninety-two streets or parts of streets, representing 12.86 miles; 11.41 miles were brick sewers and 1.45 miles were of pipe. Of the pipe sewers 1,386 feet were laid with 12-inch pipe, 5,572 feet were laid with 15-inch pipe and 735 feet were laid with 18-inch pipe.

The aggregate cost of sewer work in 1898 is more than one-half greater than for work in 1897, three times greater than for 1896, more than five times greater than for 1895, more than three times greater than for 1894, two times greater than for 1893 and 2.4 times greater than for 1892.

In amount expended for sewer work and in number of cubic yards of concrete and brick masonry constructed, the year of 1898 is believed to be the greatest in the history of the city.

The sewers in Case avenue, from Kingsbury run to Woodland avenue; in Detroit street, from near Gordon avenue to Lake avenue; in Oliver street, from Superior street to Euclid avenue, and in Walworth street, from Gordon avenue to 646 feet easterly from Junction street, known as Section 1, were completed from last year's contracts.

The sewers in the following streets were left incomplete at the close of the season. In the Boulevard, from Desmond street to Detroit street; in Bergen street, from Train street to Clark avenue; in Desmond street, from Lake avenue to the Boulevard; in Lake avenue, from the L. S. & M. S. Ry. to Lower street; in Malcom street, from Detroit street to West Madison avenue; in Tod street, from Henley street to Fleet street; in Woodland avenue, from Factory street to Cross street, and in Walworth street, from 646 feet east of Junction street to near Mill street, known as Section 2. The amounts expended upon each sewer at the close of the year are shown in Table No. 3.

The magnitude and importance of the sewer in Walworth street, designed to take up the water of Walworth Run, deserves special consideration in this report, especially as some of the most difficult problems encountered in its construction have yet to be met. Its form, magnitude, cost of construction, distribution of its cost upon abutting and interested property and upon the city at large, are matters of deep interest to our citizens and to all persons interested in the construction of large public works.

Walworth Run at its minimum or dry weather flow is an insignificant stream of little note, except for the filth it contains, and at such times could be easily carried in a two-foot pipe, but at maximum or flood tide is a large and turbulent stream, which can only be contained in a sewer of large proportions and great strength, with ample margin for safety, such as we believe we have planned and are now building in this street.

In giving a general description of this sewer I can do no

better than to quote from my annual report for 1897, as follows: "This sewer will begin at the head of Walworth Run, at the intersection of Clark and Gordon avenues, and extend easterly in Walworth street and in a special right-of-way in said valley a distance of about 13,600 feet to the Cuyahoga River. The sewer when complete will have an interior diameter of 16 feet 6 inches at its lower end and 8 feet at its upper end. It will be circular in form upon its interior surface, with a vitrified shale brick lining throughout. The exterior surface of the arch and haunch walls consists of segments of circles, with radii varying according to sizes of sewer. The exterior of the bottom will consist of a horizontal plane, broadened out to meet the varying conditions of the foundation. The exterior side walls below the haunches will be straight, inclining slightly inward.

"The entire lower portion of the sewer, except the inner ring, as stated, will be of cement concrete, resting upon a plank grillage when necessary. The arch and haunch walls will be of brick masonry.

"The sewer is destined to take storm water and sewage combined. The great length of the valley and its extreme depth below all adjacent territory makes it the storm center of a vast area extending beyond the limits of the valley proper. The steep gradients of all street gutters and sewers connecting with it from the adjacent lands, when fully improved and built upon, will precipitate the water from excessive rainfalls into the sewer with such rapidity that floods in this valley would surely follow if the sewer were not made correspondingly large to receive it—not as this territory now exists but as it will be when fully built up. I believe this necessity has been fully met in the sizes and grades adopted.

"The sewer at its outlet into the river will be of novel and somewhat difficult construction, owing to its having to pass under the tracks of the N. Y., P. & O. R. R., which run nearly parallel with and from 10 to 100 feet from the river at this point, and consist of an upper and lower section of nearly parallel tracks crossing the sewer at nearly right angles.

"The upper section of tracks is of sufficient height to give nearly 18 feet fill over the crown of the sewer in its normal condition. From this point the form of the sewer must be

sufficiently flattened in a distance of about 75 feet to pass under the lower section of tracks, the supporting girders of which will not be more than five feet above the bottom of the sewer at this point.

"Under conditions which here exist and which are susceptible of little or no change, this sewer, which at maximum flow will carry an enormous volume of flood water, must within this short distance be depressed from a 16½-foot circular to a flattened section of less than 5 feet in height. To meet these conditions this flattened section must be broadened to more than three times the normal diameter of the sewer, or about 50 feet, for maximum flood. For the minimum or dry weather flow a slight depression in the bottom will be provided, either in the center or on one side of the broadened section. The sudden transition of a vast volume of water at flood tide from a circular form to a flattened section of such unusual proportions, without shock or danger to the sewer or to passing trains over the same, is a problem seldom met with in sewer construction in this or any other city.

"Another point on Section 4 where special construction is required is where the sewer passes under the Abbey street portion of the Central Viaduct, just west of Scranton avenue. The sewer at this point will displace one of the masonry pedestals supporting a leg of one of the spans of the Viaduct 60 feet above.

"This can be carried by greatly broadening and deepening the foundations of the sewer upon each side directly under the support, and then reinforcing the sidewalls and arch of the sewer sufficiently to safely carry the weight directly upon the crown of the sewer. Another plan suggested is to build two new and independent masonry pedestals, one upon each side of the sewer, and carry the iron support of the bridge upon a heavy plate girder spanning the sewer and resting upon the pedestals upon either side.

"The former plan would have the better appearance and would not disfigure the Viaduct structure. With the latter plan there would be less liability of accident to the bridge in case of a break in the sewer at this point. The cost of the two plans will not greatly differ and either will be efficient.

"The construction of the sewer necessitates the raising of the grade of Scranton avenue some six or more feet at this crossing. This will give a much better grade to the street and is desired by abutting owners, who have agreed to waive all claims for damages, providing the cost of filling be charged to sewer construction.

"The cost of paving the street, as now contemplated, to the proposed new grade would be no greater than to the present grade after the filling is done. The change should commence on the south line of Cliff street and extend to present surface about on the south line of the Central Viaduct.

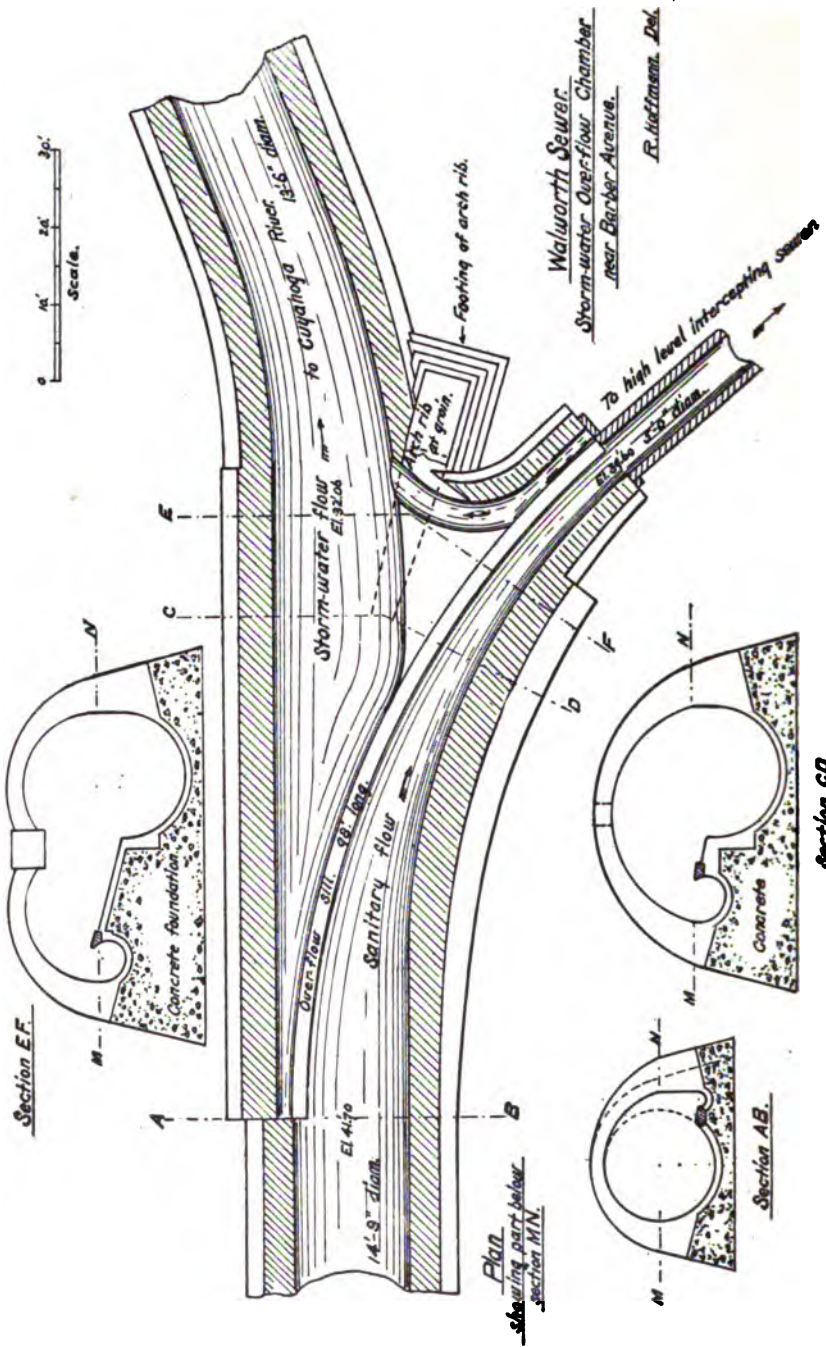
"I recommend that this change be made and that the cost of filling be charged to Walworth street sewer, as such change was not made a part of the preliminary expense of paving the street and cannot well be added now."

The cost of this sewer is to be distributed and paid as follows: Twenty-five cents per foot front is charged upon all property fronting upon Walworth street for its entire length; one-half of the balance is to be charged, according to valuation, upon all property in Districts 4, 5, 11, 12, 16 and 21, in the proportion which the area in each of said districts which will drain into said sewer bears to the whole area drained. The remaining one-half is to be paid by the city at large.

The first section of Walworth street sewer, from Gordon avenue to a point 646 feet east of Junction street, has been completed, with the exception of reconnecting one or two sewers and watercourses when deemed best to do so by the city. This work was begun in 1897 by Messrs. Wilson & Strack, and about 1,630 feet completed that year, at a cost of \$47,494.78. The length of the work done this year to complete is about 2,731 feet and has cost \$65,506, making a total length of 4,361 feet, and a total cost of \$112,980.98.

This section of sewer begins with an interior diameter of 11½ feet and ends with a diameter of 8 feet.

Section 2, Messrs. Bramley & Gribben, contractors, was begun late in the season of 1897 and about 430 feet of work done, including a portion of the great overflow chamber at the foot of Barber avenue, where the proposed sanitary sewer carrying the sewage or dry weather flow from the sewer above this point is to branch off and convey it across the city to meet



the main intercepting sewer at the intersection of North Perry and Lake streets.

The dimensions of this overflow chamber are, approximately, 110 feet long, 37 feet wide at the lower end and 17 feet at the upper end, with an average height of about 20 feet. This is one of the largest structures of its kind in the country. Interior views of this chamber and exterior views of the sewer in construction are shown on pages 510, 512 and 514 of this report. The cost of work done on Section 2 in 1897 was \$24,444.03.

During this year work has been prosecuted upon Section 2 in two places at the same time and about 2,713 feet of sewer completed, including the balance of the overflow chamber, and has cost \$149,066.

The total length completed to date on this section is 3,143 feet, at a cost of \$173,510.03, leaving about 1,210 feet to be completed, at an estimated cost of \$56,500.

The interior diameter of the sewer at the lower end of this section 100 feet west of Mill street is 13½ feet to the overflow chamber, where the size increases to 14 feet 9 inches; thence diminishing to 12½ feet at the end of this season's work, and will close with 11½ feet diameter where it connects with Section 1.

Section 3 begins at the end of Section 2, 100 feet west of Mill street, and extends easterly about 3,011 feet to a point in the rear of the Lamson & Session Nut & Bolt Works, and is estimated to cost about \$183,000. This section is also under contract with Messrs. Bramley & Gribben and work is expected to begin on it within a few weeks.

Section 4 embraces all that portion of the sewer from the end of Section 3 to the Cuyahoga River. This section is not under contract, but I have recommended that so much of it as lies between the lower end of Section 3 and Cliff street be advertised at once, leaving for further consideration such of the section as passes under Cliff street and the N. Y., P. & O. R. R. tracks to the river, as much of this latter part will consist of steel construction and will be upon a right-of-way not yet fully secured.

The total length of this sewer when completed will be, as stated, 13,613 feet, or 2.58 miles.

For the present, all sewage discharged into the Walworth



BUILDING THE WALWORTH SEWER THROUGH THE VALLEY OF WALWORTH RUN.

street sewer will discharge into the river about 250 feet above the present mouth of Walworth Run. When the south branch of the proposed interceptor is built from the great overflow chamber at the foot of Barber avenue across the country to and through Perry street to the main interceptor, all the sewage or dry weather flow above the overflow chamber will be discharged by gravity through this branch. The length of Walworth street sewer above this chamber is about 8,280 feet.

All sewage collected in Walworth street between the overflow chamber and the river—a distance of about 5,330 feet—will eventually be carried in a separate sewer, pumped up from some point near the river, and discharged into the south branch interceptor, probably at or near Perry street and Broadway, and thence flow off by gravity to the main interceptor.

All sewage in the south branch and in the main interceptor coming from the west of the river will have to cross the valley and pass under the Cuyahoga River in a series of inverted siphons, of such size and with such head, i. e., with the westerly ends of the siphons of such height above the easterly ends, as will give sufficient velocity in each siphon to prevent as far as possible the settlement of sediment in the siphons at their lowest points.

This method of conveying sewage across valleys similar to our own is adopted by engineers only as a last resort where, owing to expense or otherwise, the grade of a sewer cannot be maintained so as to provide a gravity flow across or over a valley. Siphons, at their best, are a source of care, anxiety and expense to prevent clogging and stopping, as all sewage carries more or less sediment, which settles whenever the velocity of the flow slackens sufficiently to allow it.

That portion of the western end of the main intercepting sewer along the right-of-way of the L. S. & M. S. Ry. west of the river, between Lake avenue and Alger street, and in the special right-of-way between Alger street and Gordon avenue, has been wholly completed, as has also the storm overflow outlet along the right-of-way of the L. S. & M. S. Ry., between Gordon avenue and Waverly avenue, with the outlet under the tracks of said railroad at Waverly avenue to Lake Erie. The length of the completed interceptor from



INTERIOR VIEW OF STORM WATER OVERFLOW CHAMBER NEAR BARBER AVENUE.

Lake avenue to the outlet at Waverly avenue is about 5,174 feet.

The 9-foot 4-inch tunnel outlet for the storm overflow from the interceptor at Lake avenue, at the crossing of the L. S. & M. S. Ry., has also been completed through Edgewater Park to Lake Erie, a distance of about 1,000 feet.

About 1,930 feet of the main interceptor has been completed during this season in Lake avenue, from the L. S. & M. S. Ry. crossing westerly, at a cost of \$36,798, and will be completed to Lower street the coming season.

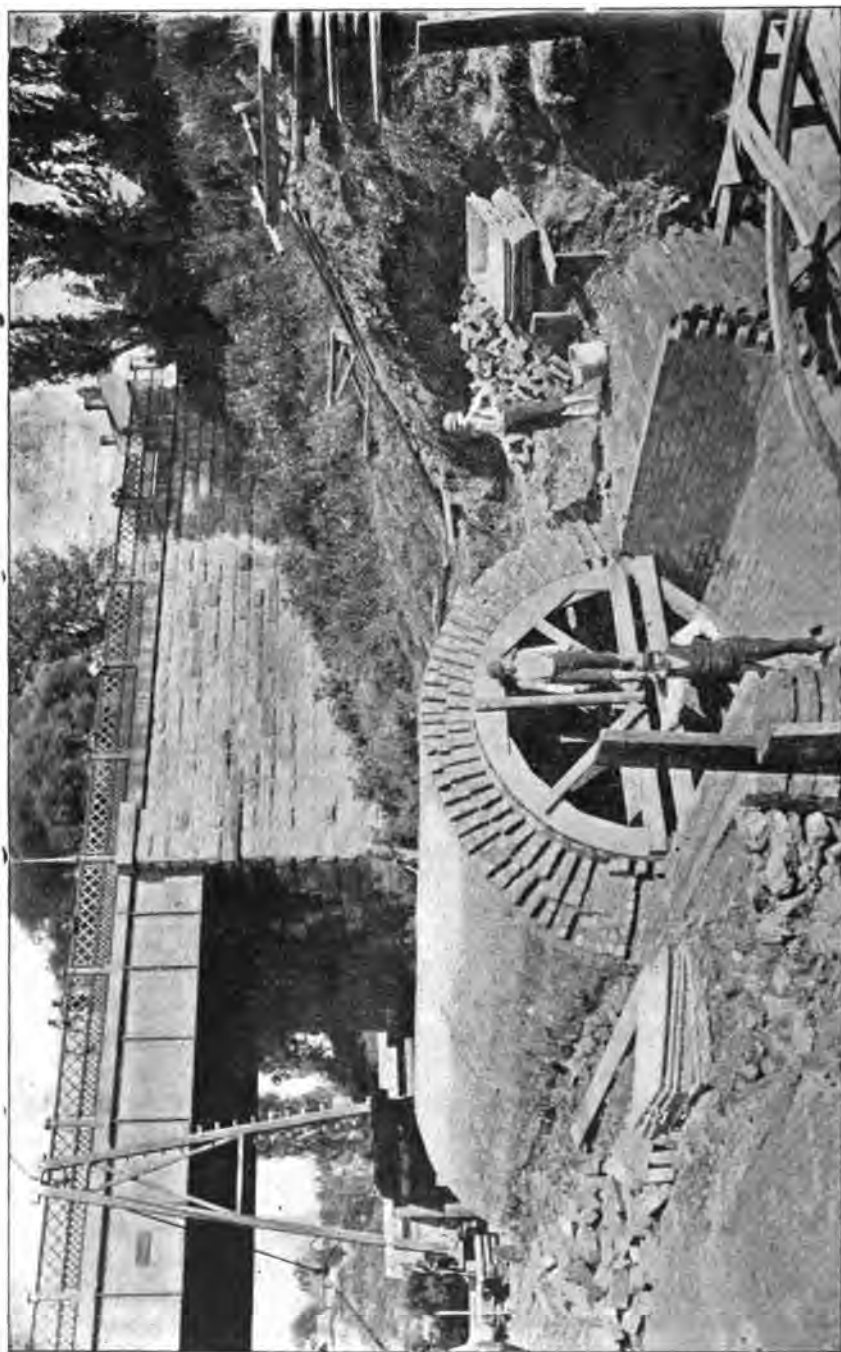
The interceptor will eventually be continued westerly in Lake avenue to the westerly limits of the City at Highland avenue.

The main sewer in Desmond street, from Lake avenue to the Boulevard, has been completed for a distance of 1,387 feet during the year, at a cost of \$29,305.37.

Water from the sewers in Desmond street and in Lake avenue west of the L. S. & M. S. Ry. crossing, and from the sewer built last season in Lake avenue from said crossing to Detroit street, is carried to two overflow chambers, one north and the other south of the L. S. & M. S. Ry. tracks at this point, where, by a somewhat complicated arrangement of curves, tunnels and overflows, the sanitary or dry weather flow from each sewer is carried to the interceptor running easterly from this point along the L. S. & M. S. Ry. right-of-way, while the storm water from each sewer is carried through the 9-foot 4-inch tunnel through Edgewater Park to Lake Erie.

A similar arrangement at Gordon avenue and Breakwater street divides the storm water and sanitary flow from the intercepting sewer coming from the west and from Gordon avenue sewer south.

Similar devices, for a like purpose, are resorted to in various parts of the city, especially in the great Walworth street sewer at Barber avenue before referred to, and at Union street and Miles Park avenue sewers on Broadway. These storm overflows, while exceedingly simple and effective in action, differ in different locations and are difficult to describe. I therefore present plans of the one on the main interceptor at the crossing of Lake avenue and the one at Gor-



SECTION OF WALWORTH SEWER DURING CONSTRUCTION.

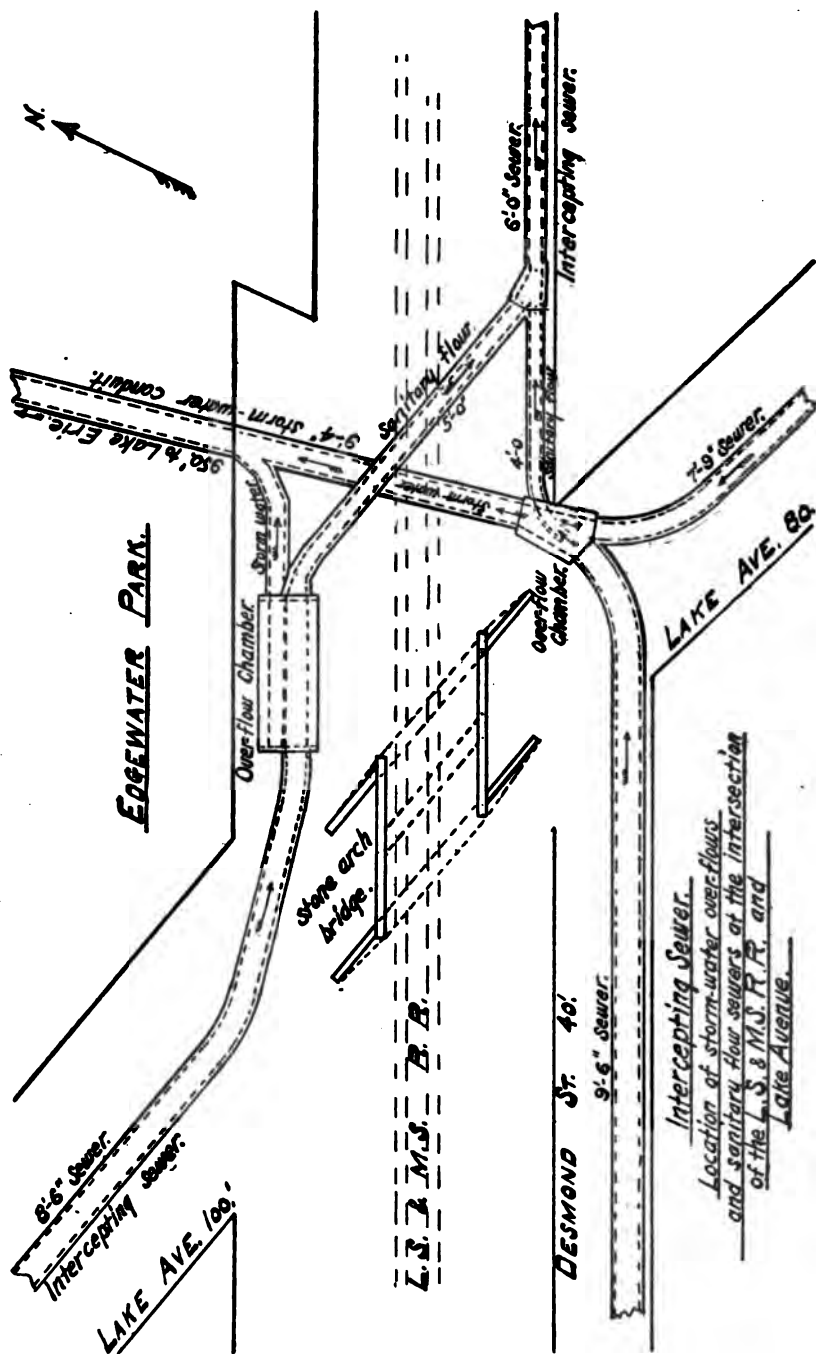
don avenue and Breakwater street, which will give a general idea of their form and purpose. These plans will be found on pages 516 and 518 of this report.

A map showing the sewers now built and those in process of construction, that will connect with the main interceptor at Lake avenue and the L. S. & M. S. Ry. will give a better understanding of those parts of this report referring to them. This map will be found on page 522 of this report.

Among the more important sewers built this year are the following: Case avenue, from Kingsbury Run to Woodland avenue; Desmond street, from Lake avenue to the Boulevard; Detroit street, from Eliot street to Lowell street; Edgewater Park tunnel, from Lake avenue to Lake Erie; Eliot street, from Detroit street to Lake avenue; Francis street, from Willson avenue to Tod street; Franklin avenue, from Watterson street to Pease Court; Groton street, between Union street and Ætna street; Gordon avenue, from Breakwater street to Bridge street; L. S. & M. S. Ry. right-of-way, from Waverly avenue to Gordon avenue; Lake avenue, from the L. S. & M. S. Ry. to Lower street; Miles Park avenue, from Broadway to Sawyer street (not completed); Train street, from Junction street to Swiss street; Woodland avenue, from Factory street to Cross street (not completed); Watterson street, from Detroit street to West Madison avenue; West Clinton street, from Watterson street to 330 feet west of Gordon avenue, and Sections 1 and 2 of Walworth street, the latter not completed.

Of the 105 sewers to be completed next season or upon which work is expected to begin, the following are some of the important ones, with the approximate cost of construction:

Broadway, Warner rd. and Turney ave. sewer, from Miles Park on Broadway to Force st. on Turney ave., approximate cost based upon bids received	\$ 15,000
Burton st., from Storer ave. to Rhodes ave.	17,431
Bazetta st., from West Madison ave. to Willard st.	11,781
Berlin st., from West Madison ave. to Lorain st.	17,450
Case ave., from Lake Erie to Euclid ave.	200,000
Chatham st., from Pearl st. to Willett st.	23,000
Conover st., from West Madison ave. to Lorain st.	28,196



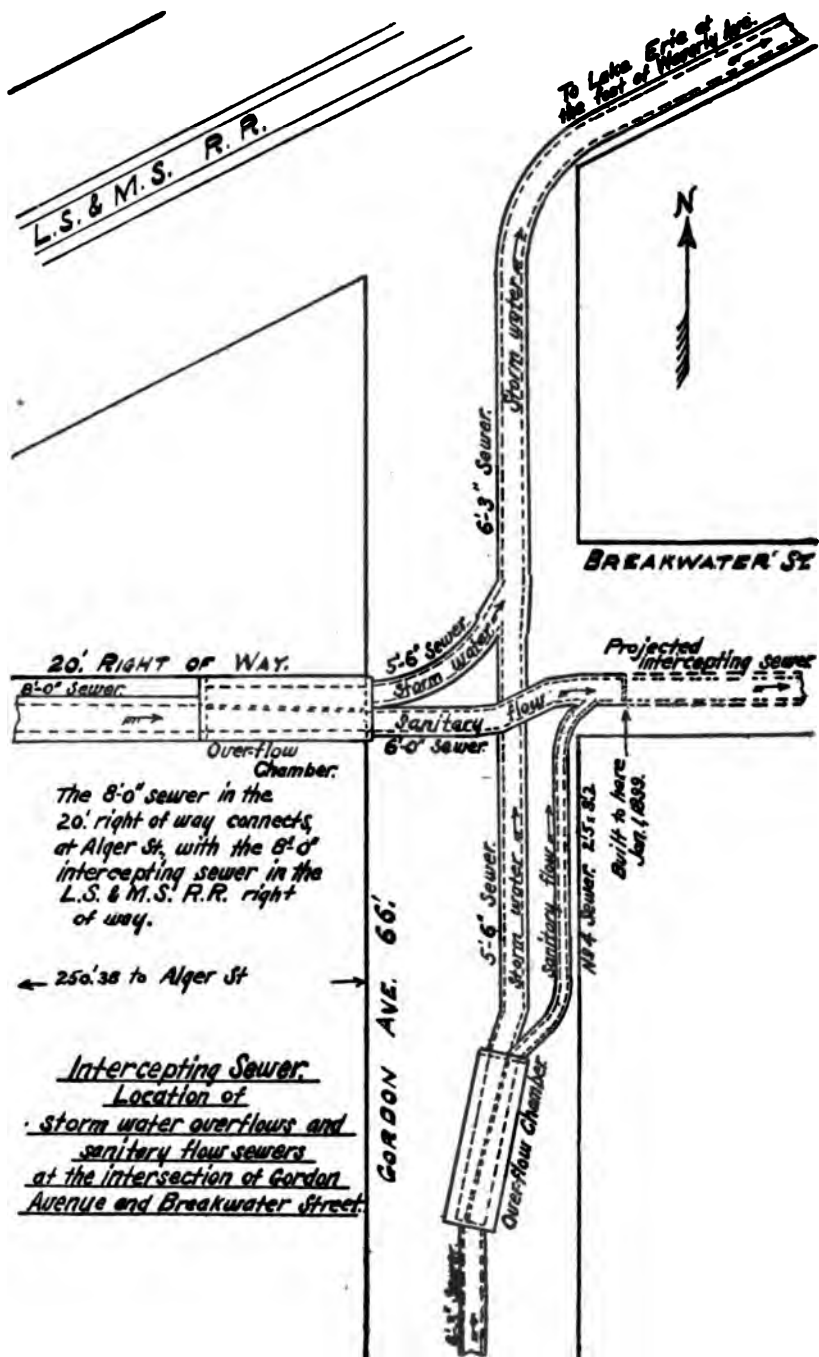
Intersecting Sewer.
 Location of storm-water over-flows
 and sanitary flow sewers at the intersection
 of the L.S. & M.S. R.R. and
 Lake Avenue.

Clark ave., from Isabella st. to Gilbert st.	\$ 20,213
Clark ave., from Walworth st. to Lennox st.	13,000
Camden st., from Lennox st. to Bigelow st.	30,779
Doan st., from city limits north to Lake Erie	365,000
Interceptor in Lake st., from Water st. to Muirson st.	165,000
Interceptor in Lake Boulevard, from Adams ave. to Doan st.	643,500
Miles Park, Sawyer st. to Woodland Hills ave. . . .	15,000
Muirson st., from Lake Erie to Walnut st.	50,000
Norwood st., from St. Clair st. to Hough ave. . . .	199,042
Oxford st., L. S. & M. S. Ry. to St. Clair st.	106,770
Petrie st., from Morgan Run to Vivian st.	36,540
Scranton ave., Walworth st. to Kenilworth st. . . .	20,000
Superior st., from Muirson st. to Erie st.	9,426
Train st., from Gauge st. to Junction st.	15,759
Wellington ave., from Detroit st. to W. Madison ave.	18,672
West Madison ave., from Gordon ave. to Berea Rd. .	94,362
Woodland ave., from Erie st. to Willson ave.	82,756
Walnut st., from Erie st. to Muirson st.	2,958
Walworth street, from Cliff st. to Mill st.	367,000

Previous to this year little or no progress had been made in securing a right-of-way for the intercepting sewer through the villages of Glenville and Collinwood. Land had been secured on the lake shore to the eastward of the city for the location of the outfall and terminal works, but no route to it for the sewer had been definitely outlined by the city or conceded by either village previous to this year, although several meetings had been held by the city and Glenville officials for this purpose.

On April 26, 1898, an act of the General Assembly was passed authorizing the mayors of cities of certain grades and the mayors of adjacent municipal corporations, through whose territory it is desired to build main and intercepting sewers, to appoint a commission to suggest terms and conditions upon which certain streets and avenues in such corporations could be so occupied and used, and to report its findings to the court of common pleas for its confirmation or disapproval.

In conformity with said act, an ordinance was passed by the City Council on August 8, 1898, designating certain streets



L.S. & M.S. R.R.

To Lake Erie at
the foot of Huron Ave.



BREAKWATER ST

20' RIGHT OF WAY.

8"-0" Sewer

Overflow Chamber.

The 8"-0" sewer in the
20' right of way connects
at Alger St. with the 8"-0"
intercepting sewer in the
L.S. & M.S. R.R. right
of way.

← 250.38 to Alger St

GORDON AVE. 66'

5'-6" Sewer
Storm water

Sanitary
6'-0" Sewer

5'-6" Sewer
Storm water

Overflow Chamber

Projected
intercepting sewer

Built to here
Jan. 1889.

Intercepting Sewer.
Location of
storm water overflows and
sanitary flow sewers
at the intersection of Gordon
Avenue and Breakwater Street.

to be so occupied by the eastern portion of the main or intercepting sewer in the villages of Collinwood and Glenville; also, in pursuance of said act, sewerage commissioners were appointed respectively by the mayors of Cleveland, Glenville and Collinwood. Mr. C. G. Force, assistant chief engineer in this department, and Messrs. James Wood and Theodore Urban, were appointed to represent the city upon the commission.

The commissioners for Cleveland and Collinwood, after several meetings, agreed upon the conditions upon which the city should occupy the streets designated in the Village of Collinwood, and have reported their findings to the Common Pleas Court, as required by said act. These conditions have since been confirmed by the court.

The sewerage commissioners for the city and Glenville have also had several meetings relative to the occupancy of streets in that village, and for the construction of that portion of the Doan street sewer which will be in said village. It is expected that at an early date conditions satisfactory to both the city and the village will be agreed upon and reported to the court for its consideration and confirmation.

An important change in the location of the interceptor through the village of Glenville, desired by the representatives of both the city and the village, is now being worked out. After this change of route is effected and conditions agreed upon, it is expected there will be little delay in reporting the same to the court.

The location of the interceptor through the villages having been substantially agreed upon, a series of accurate levels are now being run from new and heretofore unused benchmarks planted along the proposed line of the interceptor; also on Doan street and at the terminal works.

Test borings are being made to determine the character of material which will be encountered in the construction of the interceptor and terminal works. Plans and estimates are now being considered for the eastern portion of the interceptor and for the sewer in Doan street, in order that the work may be commenced on portions of both of these sewers during the coming season.

Preparatory to the construction of the sewer in Doan

street it has been found necessary to raise the grade of Doan street at Wade Park about eight feet. This has been accomplished and the new grade established by ordinance.

Through negotiations by this department between the city and the L. S. & M. S. Ry. Co., the right has been secured to construct the intercepting sewer along the northerly side of said company's right-of-way from Bratenahl road easterly for a distance of about 5,900 feet, to a point about 1,950 feet east of Doan street, from which point a special right-of-way about 150 feet in length has to be secured to connect with the Boulevard in which the sewer is expected to extend thence easterly.

The amount paid for the use of the L. S. & M. S. Ry. Co.'s right-of-way is \$13,986. This grant will be of great advantage to the city, as it will shorten the former proposed route by way of the Boulevard from Bratenahl road easterly until it again enters the Boulevard by at least 1,600 feet, and will save not less than \$50,000 in cost of construction.

Owing to an earnest desire upon the part of both contractors and workmen that work upon sewers should be allowed to extend beyond December 1st when, each year, this class of work is expected to cease, the mayor and the director of public works consented at the close of the season that, upon the request of the contractor the work upon any sewer might continue beyond December 1st, providing such contractor would, in order to keep his work from freezing, agree to observe certain requirements and conditions, a copy of which was given him and also to the city's inspector upon the work. These requirements in substance are that all work shall cease when the temperature of the outside atmosphere falls below 24° F., and then only when contractors are properly equipped; and will observe the following regulations, to wit:

"The water, sand and cement to be brought to such temperature before mixing that the mortar being used in the work shall not fall below 60° F.

"Bricks and broken stone concrete before being used shall be brought to such temperature as not to fall below 40° F. when placed in work.

"Bricks and stones to be heated in such manner as not to be coated with smoke or soot or otherwise injured.

"The brick masonry and concrete to be properly covered

as fast as laid and in such manner as to effectually prevent freezing.

"Generally and unless otherwise permitted no more invert or bench walls shall be constructed than can be arched over and covered with earth each day.

"The arch of the sewer when completed to be immediately covered with from two to three feet of earth before leaving the work each day.

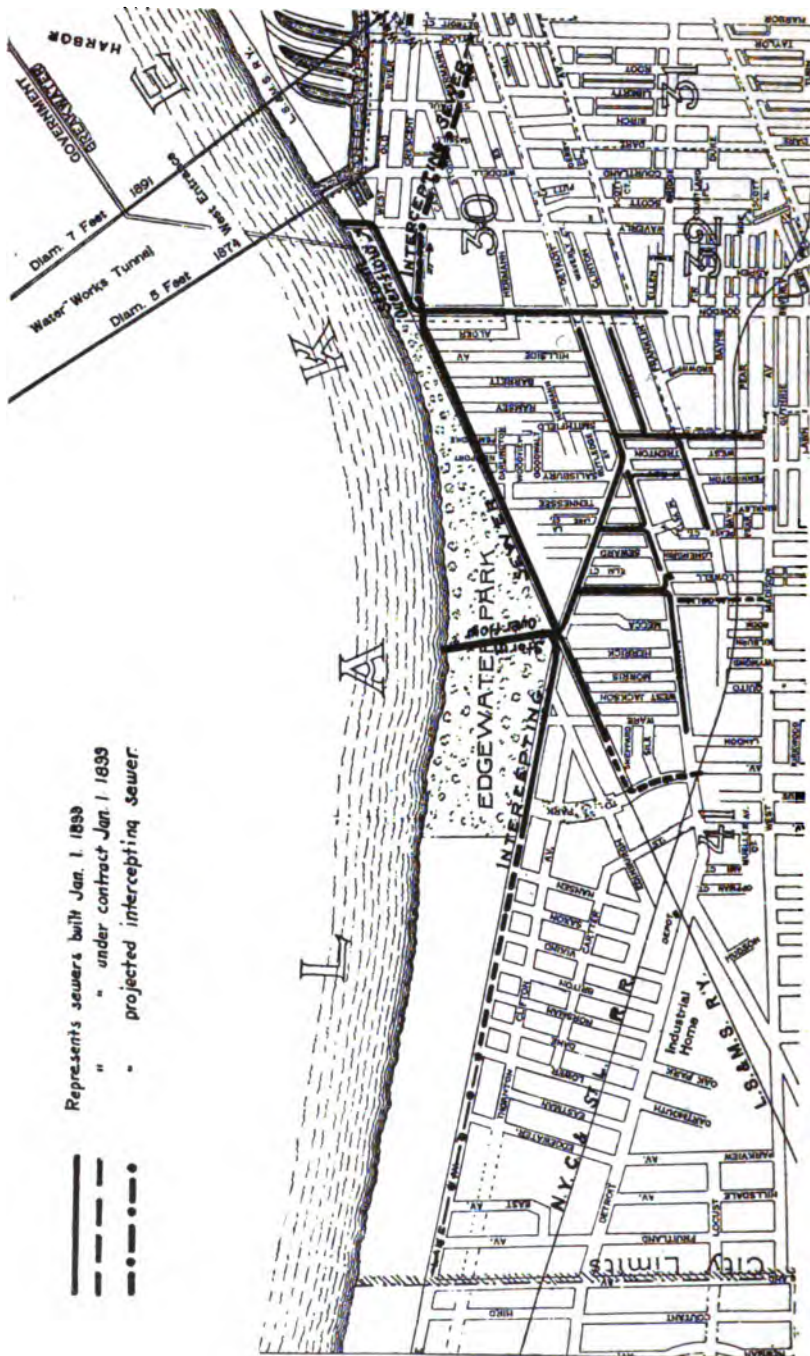
"Concrete and invert or bench walls shall be properly and effectually covered after being put in place, either by the use of a sufficient covering of tarpaulin properly weighted down and protected about the edges, or by a plank covering over the trench and the introduction into the trench of salamanders in which fires are to be maintained during the construction of the work and during the night; all to be done in a manner acceptable to the Director of Public Works and Chief Engineer.

"It is understood that whenever the temperature of the outside atmosphere falls below the temperature above specified, or when in the opinion of the Director of Public Works and Chief Engineer this work is not being done properly or protected in the manner above specified, work is to cease and proper steps shall at once be taken to effectually protect such work until work is allowed to be resumed."

With all the care that has been exercised under the above conditions, some work has frozen before it has had time to set and had to be removed. . Nevertheless, much good work has been done and many days' work have been furnished to workmen. This, and an earnest desire upon the part of both contractor and city for an early completion of the work, should alone be offered as a reason for prosecuting this class of work in freezing weather, as it cannot be shown that as good work can be done in this as in milder weather.

The quality of all sewer work done this season has been fully up to, and some of it above, the standard of former years, as each year we draw the specifications on certain lines closer upon both work and materials than heretofore. All cement, sand and brick to be used in masonry construction is subject to a critical test in the laboratory and must pass the requirements of the specifications before being placed in the work.

The average price paid for sewer brick masonry, includ-



ing excavation, for 1898, is lower than for any year since 1892, except for 1895, when the specifications were less rigid than at present.

The following table shows the number of cubic yards of sewer brick masonry constructed and the lineal feet of 12, 15 and 18-inch sewer pipe laid, with the average price paid for each, including excavation, for each year from 1892 to 1898 inclusive.

To carefully compare average prices, one year with another, it would be necessary to analyze conditions and methods for each sewer in each year.

BRICK MASONRY.

Year.	Cubic Yards.	Average Price.
1892	20,557.5	\$10.66
1893	19,862.7	10.59
1894	12,999.0	9.94
1895	12,228.1	5.56
1896	22,147.4	7.78
1897	31,231.6	8.77
1898	60,377.7	7.69
	12-inch Pipe—Lineal Feet.	
1892	4,080	.65
1893	3,846	.69
1894	14,737	.565
1895	8,013	.515
1896	4,164	.555
1897	3,795	.72
1898	1,066	.64
	15-inch Pipe.	
1892	7,765	.87
1893	5,303	1.09
1894	14,104	.64

Year.	Lineal Feet.	Average Price.
15-inch Pipe.		
1895	7,265	.60
1896	6,670	.73
1897	5,745	.928
1898	4,116	.711
18-inch Pipe.		
1892	1,025	1.45
1893	1,183	.93
1894	5,115	.81
1895	2,263	.738
1896	650	1.05
1897	840	1.217
1898	340	.67

GIDDINGS BROOK.

Some progress has been made relative to the deflection of Giddings Brook east of Woodland Hills avenue, through Baldwin street and a portion of the Park lands to Doan Brook, as authorized by an act of the Legislature passed April 7th, 1898.

A resolution of the Council authorizing the construction of a tunnel or conduit for the diversion of this brook was passed May 21, 1898. A subsequent resolution, passed November 14, 1898, provides that one-half of the expense of the diversion of said brook shall be charged upon the abutting and benefited property fronting upon each side of said brook, and within 200 feet of the center thereof, between Baldwin street and Lake Erie.

This will give a little over seven miles of direct frontage, and also a large amount of contiguous property within the 200 feet limit upon which to spread a tax.

This ought to make the rate so light that it will not be burdensome to any citizen whose property is taxed, as all such property will certainly be benefited by the improvement.

This stream has of late years become a great nuisance, as it often passes from a dry creek bed upon much of its route to a wild stream in the course of a few hours, overflowing its banks and flooding cellars and highways in its immediate vicinity and often spreading over a wide expanse of territory in its neighborhood.

This work has been estimated to cost \$50,000, with a possibility of its reaching \$60,000. I think that, in working out the plans in detail, it will be decided that it is the part of wisdom to so increase the capacity of the conduit beyond its theoretical requirements, as to forever preclude the possibility of its not taking the water during excessive floods, as the water comes down from the upper plateau from 50 to 100 feet above the proposed conduit, and still leave ample margin for the drift and debris that follow all great storms.

A failure to have done this, with the stream bed below Woodland Hills avenue filled up and all culverts and sluices removed, would surely result in damages to property, both public and private, far beyond the cost of any reasonable increase in the size and capacity of the conduit.

I have been unable to get an option from the owner of the land at the end of Baldwin street, where the tunnel will begin and where intake dams will have to be built, owing to the fact that he has already given the Park Board an option on the same land for Park purposes, and upon a much larger portion than we want. The owner claims that he does not wish to complicate his deal with the Park Board. I presume that we will be able to negotiate with the Park Board when the deal with the owner is closed.

Changes have been made in the park lands at the outlet of the conduit by which Ambleside avenue, which we hoped to occupy, has been vacated; a new route, somewhat longer, may have to be selected. This work should be pushed to completion as soon as possible.

RIVER PURIFICATION.

No further steps have been taken in the matter of purifying the waters of the Cuyahoga River than the adoption by

the Council, on February 3, 1896, of the plans approved by the Expert Commission.

The plan approved by this commission is interesting as an engineering problem of large magnitude, and is the only one suggested so far that is likely to prove effective whenever the city thinks best to consider the matter. The plan in brief is as follows:

The construction of a flushing tunnel, 18 feet in diameter and about three miles in length, extending from the lake at Edgewater Park near the foot of Barrett street; thence under the city from 70 to 100 feet below the general surface and in nearly a direct line to the Cuyahoga River, upon the Infirmary Farm near the foot of Valentine street produced.

By the use of a large propeller wheel pump, to be located in the lake end, lake water can be pumped through this tunnel in quantity sufficient to displace the entire volume of water in the Cuyahoga River from this point to the lake—a distance of about $6\frac{1}{2}$ miles—every 24 hours, without injury to abutting property or disturbance to navigation.

This tunnel, with its pumping plant, would be likely to consume two or more years in construction. By that time our new water supply would be in use before river flushing could be made available.

The flushing tunnel and pumping plant have been estimated to cost about \$1,000,000.

RIVER AND HARBOR WORK.

There has been little progress made this year in river widening except the preparation of plans and advertising the work of removal of the old docks, dredging and building new docks from the east line of Main street to the old river bed, a distance of about 708 feet, and for supporting the south abutment of Main street bridge, made necessary by such widening. This work, if wholly done by the city, will cost about \$15,000, but under the terms of purchase by the city of the so-called Woolsey property the owner agrees to build his own dock; the city must, however, dredge out the channel in front of it

The purchase of one or two properties between Main

street and the river bed has not yet been fully consummated, but it is expected it will be in time for the completion of the work the entire distance under one contract.

The work of river widening between the old river bed and the mouth of the river is already in progress by the General Government, the land having been purchased by the city and donated to the Government for this purpose. The new west pier to be constructed will be about 160 feet back from the face of the old pier. This additional width will be added to the present width of the river at this point, making its total width about 325 feet. The face of the new dock will be nearly or quite back to the face of the west or land abutment of the iron railroad bridge crossing the river at this point.

This widening by the Government, it is understood, will extend only up to the "Tisdale Slip" (so called), leaving a small uncompleted section between this point and the old river bed, which should be widened and docked by the city by the time this Government work is completed.

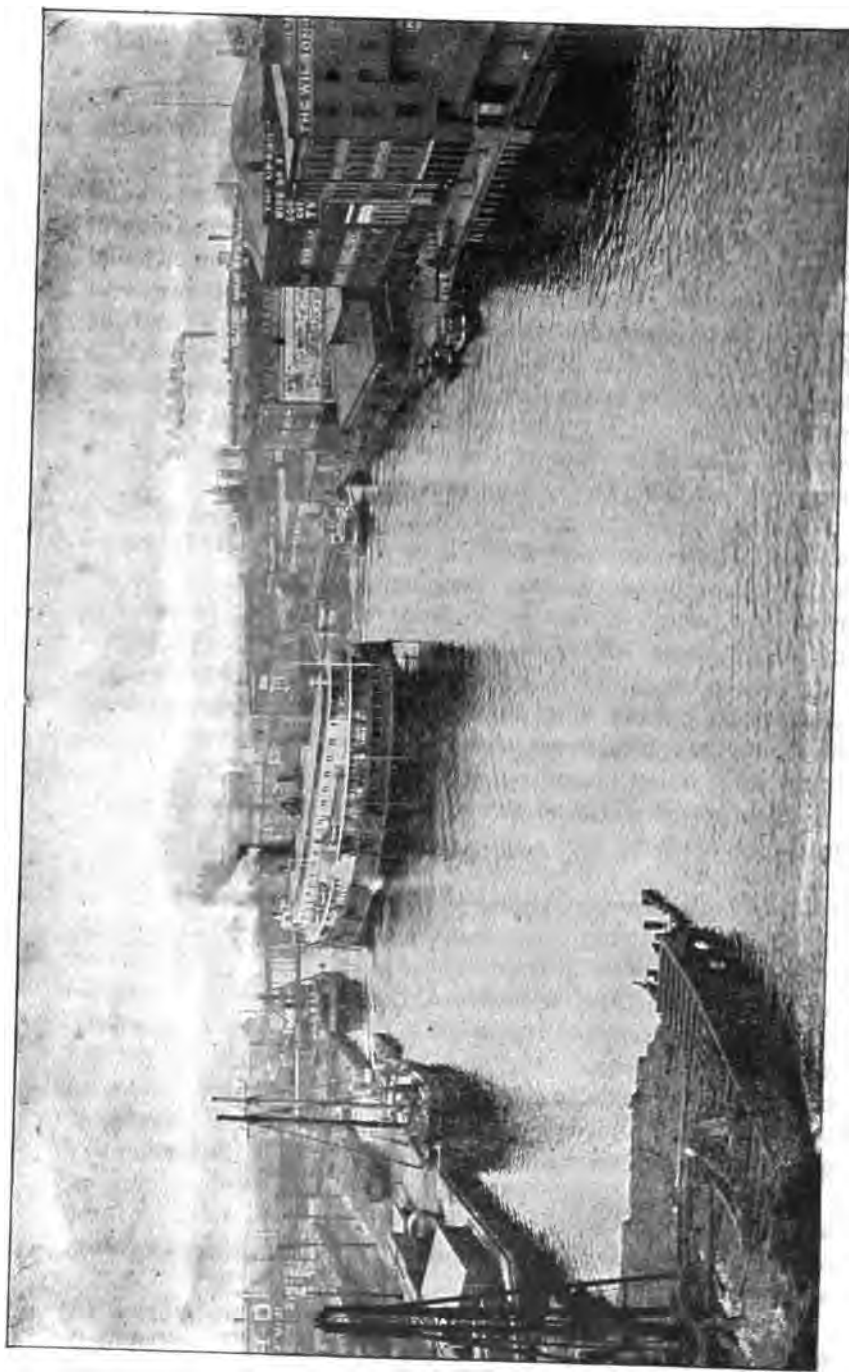
That portion of the westerly side of the river from Main street to a point within about 300 feet north of the Superior street Viaduct, a distance of 885 feet, was docked and dredged last year at a cost of about \$27,000.

The added width to the river at this point is well shown in the cut on page 528.

From the last point to 40 feet south of Elm street, the end of the proposed widening—a distance of about 775 feet—the docking and dredging should be done as soon as possible to give an additional channel under the westerly end of the Viaduct draw. This will probably cost about \$30,000, exclusive of land or the reinforcing the west abutment of the Viaduct draw span. The cost of this last project alone has been variously estimated at from \$30,000 to \$60,000, owing to the difficult character of the work and the various plans suggested for its accomplishment.

The various other points along the river deserving of attention in widening the river channel are quite fully set forth on pages 16 and 17 of my annual report for 1897, to which attention is respectfully called.

One place, however, deserves mention, one where the object sought can be attained at little cost compared with



CUYAHOGA RIVER NORTH OF THE SUPERIOR STREET VIADUCT.
Extent of Widening Shown by New Dock and Remnant of Old on West Side of Channel.

results obtained. I refer to the cutting off of a small triangle from the northerly side of the Cincinnati slip at its junction with the river near the foot of Ohio street, for the purpose of affording a safe winding place for vessels in this part of the river. Many large vessels enter and leave this slip, or come here for the purpose of winding. This would greatly facilitate their doing so; in no other place for a mile either way can like facilities be obtained for so small an outlay.

At the intersection of Columbus and Leonard streets the channel of the river will be greatly improved the coming season by the rebuilding of the C. C. C. & St. L. R. R. freight bridge, known to the railroad company as the Lower Flats Bridge, crossing the river at this point.

This bridge now has its center pier in the center of the channel, giving two very narrow passageways. The new bridge will have no center pier in the channel but to one side, so as to provide a single clear waterway about 112 or 114 feet between protections.

Widening the river at "Collision Bend," below and near Middle Seneca street bridge, and widening and straightening the channel at Jefferson street bridge, are each recommended in my annual report for last year and are again cited, as they are each year becoming more imperative.

The L. S. & M. S. Ry. Co. has constructed the 100-foot stationary bridge, spanning a 60-foot channel for boats and a 40-foot passageway for teams and other purposes, under its tracks at the head of the old river bed at its proposed outlet to the lake, as per agreement with the city. The bridge has been completed and the dock between the 60 and 40-foot passageways built, but as yet no dredging has been done to open the 60-foot channel to the north line of the company's right-of-way. This the company is ready to do whenever the city secures an opening of the channel from this point across the adjoining property to the lake.

The necessary land for this extension should be secured from the C. & P. Ry. Co. or other owners, and a 60-foot channel docked and dredged for a distance of 600 or 800 feet to the lake. This will be at the city's expense, and may be roughly estimated to cost \$50,000.

The construction of the new Center street bridge now

under way, with its center pier wholly upon one side of the river, will give a greatly improved waterway at this point fully 110 feet wide between protection piles, whereas there are now two narrow channels at best only about 68 feet wide each in the clear.

ERIE STREET EXTENSION WORK.

The work thus far done at this point consists mainly of the construction of pile and timber work upon the easterly line of Erie street, extended into the lake about 1,144 feet from shore. This pier was completed last year to a point within about 775 feet of the new Government dock line as re-established by the Secretary of War during the present year. This line is a projection, easterly from Seneca street, of the line as heretofore established west of said street.

That portion of the pier completed this year is known as Section 5, upon which about \$2,300 was expended this year. This pier will be extended along its present lines about 60 feet further into the lake at its present width of 20 feet, and will there deflect to the left at nearly right angles and extending thence westerly, 22 feet wide, about 715 feet southerly from and parallel with the new United States Government dock line to Seneca street, a distance of about 2,400 feet.

From the parallel pier it is proposed to construct slips or docks northerly to the new Government dock line, a distance of about 715 feet, giving that depth for all slips or docks hereafter to be constructed at this point. The present contract embraces the construction of the first slip known as Slip No. 1, commencing at Erie street. This slip, or open water, will be 200 feet wide, with piers upon each side 100 feet wide.

For convenience in letting contracts and in construction the work was divided into sections. The parallel pier consists of Sections 6, 7 and 8, of about 800 lineal feet each. Section No. 9 consists of the pier on the east side of Slip No. 1 and is upon the east line of Erie street extended, and No. 10 comprises the pier on the west side of said slip.

Bids have been received and a contract awarded for all of the five sections of this work from Sections 6 to 10 inclusive, the L. P. & J. A. Smith Company being the lowest bidders

for all the five sections, which are estimated to cost \$170,000. Work upon these piers will be commenced early in the Spring.

The area to be inclosed by the parallel pier and the piers at Seneca and Erie streets will comprise about 60 acres, which when filled up will make a valuable acquisition to the city, to be used for such purposes as shall hereafter be determined.

As soon as the parallel piers shall have been constructed for a few hundred feet westerly from Erie street, all dredging material removed from the river, old river bed, river widening, or in the construction of new docks, can be deposited behind this pier, which will afford a short haul for dumping scows, will greatly aid in the making of valuable land for the city, besides solving the question of a dumping ground for city dredging, a great desideratum, since the city has been enjoined by the Federal court from dumping, as heretofore, at designated places in the Lake.

It is estimated that 65,000 cubic yards of earth and ashes have been deposited in the lake at the foot of Erie and Seneca streets during the past year without expense to the city other than the men employed on the dump.

RIVER DREDGING.

A very satisfactory stage of water has prevailed in the river and harbor throughout the year, the water averaging .4 feet below Government zero, the base of reference in all city and Government dredging. The average height of water for 1897 was .8 feet below, and for 1896 varied from 1.3 to 1.6 feet below, with a similar stage of low water for 1895.

It is noted that, naturally, the stage of water which prevails during any season of navigation has much to do with the amount of dredging required during that season. This is notably true for the past three seasons.

The average stage of water during 1896 was 1.45 feet below zero, and 307,865 cubic yards of dredging was done. The average stage of water for the year 1897 was .8 feet below zero, and 164,296 cubic yards of dredging was done. While for the present year the water averaged only about .4 feet below, and only 151,228 cubic yards of dredging was required, giving a good depth of channel throughout the season.

That portion of the river channel below the L. S. & M. S. Ry. bridge at Front street is cared for by the General Government, but during the past season, owing to lack of funds, it has not always been kept at the proper depth for the largest vessels.

This season ends the second year of the second five-year contract for river dredging. The price paid is 12 cents per cubic yard, including logging in portions of the river where dredging has heretofore been done. In new sections of the river \$8 per hour is charged for logging.

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feet of earth embankment, making a total of about 940 feet. This structure, when completed, will connect Willet street on the north with Rhodes avenue on the south, and will make a continuous and important thoroughfare from Lorain street on the north to Dennison avenue in Brooklyn.

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The bridge will be of the ordinary pivot pattern, having one arm of 100 feet and one of 145 feet in length.

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Some immediate steps should be taken to secure the balance of the funds required so that work may proceed on the sewer and grading, and to also secure the amount granted by the State for this improvement before the grant shall lapse by limitation.

With this amount secured from the State there will still be an apparent deficit in the cost of the improvement beyond the amount already assessed upon the property and the amount to be paid by the city of from \$7,000 to \$10,000, especially if the sewer and embankment have to be re-advertised.

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of Ridge and Dennison avenues. This structure is old and in need of immediate attention.

This bridge, to properly accommodate both streets, should be in the nature of a double structure coming together upon the westerly abutment, in shape somewhat like the letter V. The bridges at their easterly end will also span the tracks of the Cleveland Belt & Terminal Railway Company, which will when constructed parallel the C. C. C. & St. L. Ry. at that point.

This bridge was originally built by the latter company, but the expense of rebuilding should be borne by the two companies, with the city paying a small portion of the expense—perhaps one-sixth of the entire cost—as shall be hereafter agreed upon.

The C. C. C. & St. L. Ry. Co. contemplates rebuilding its freight bridge crossing the river opposite the intersection of Columbus and Leonard streets the coming season, and at the city's request will remove the center pier from the center of the channel, which is greatly contracted at this point, and will place the pier or abutment wholly upon the westerly side, giving a clear waterway of not less than 114 feet between protections, in place of two narrow channels, as at present.

The new bridge as now planned will be of the Shurzer rolling lift pattern and will afford an excellent opportunity to witness the operation of this form of swing or lift bridge, which requires the purchase of no additional land for swinging over.

The city and the C. C. C. & St. L. Ry. Co. have under consideration the construction of an under-crossing of said company's tracks at Clark avenue. This is a much needed improvement and should be made as soon as practicable.

Council resolutions have been passed calling for reports upon the advisability of abolishing grade crossings at various points in the city, which are under consideration by this department.

A Council resolution was passed early in the season authorizing the mayor to appoint a grade crossing commission. The commission as appointed consists of Dr. G. C. Ashmun, Councilman from the Third District, chairman, and Messrs.

W. R. Warner, M. M. Hobart, W. J. Crawford, and M. E. Rawson, chief engineer.

One or two meetings have been held by the commission, at which the chairman was requested to ascertain from other cities where crossing work has been done what legislation was necessary to secure the general abolition of grade crossings in this city.

SURVEYS.

The surveys made during the year, as given in Table No. 9, number 201.

The most extensive survey made was of that portion of the territory embraced in the lake front case, lying north of Front and Summit streets between the Cuyahoga River and Bank street. It included the location of all railroad tracks, docks, boat slips, depots and other buildings, and was properly tied up to adjoining street lines. The map made from this survey was used by the city's attorneys in fighting the case in the Federal courts.

Also, in the interest of the lake front case, was the survey of Whiskey Island, adjacent to the old river bed, including the location of the two dry docks, the piers at each side of the opening of the old river bed, the L. S. & M. S. R. R. and the Pennsylvania Railroad Company slips, and the survey of the L. S. & M. S. R. R. Co.'s right-of-way from the Cuyahoga River westerly to Waverly avenue.

An extensive survey was made to locate the channel of Giddings Brook and all property within 200 feet of either side of the same, from Baldwin street to Lake Erie, embracing more than $7\frac{1}{2}$ miles of frontage upon the stream, exclusive of the property on either side of the 200-foot limit. The whole was properly mapped and the property owners' names shown on the same.

The survey was completed from Doan street easterly for the proposed opening of East Prospect street, from Bolton avenue to the Park Boulevard.

An extensive survey was made of Jennings avenue, from the north line of the Infirmary Farm to the southeast corner of the original Brooklyn Township Lot 74 and the adjoining territory.

Lines and elevations were given and the right-of-way staked out for the construction of the Warner road culvert, the Martin-Praha street bridge and Willett street viaduct.

As has been customary in past years, surveys were made of all streets previous to paving or otherwise improving the same, so that the improvement might be made upon proper and correct lines.

The office work in this division has consisted largely in the filing and indexing of all important maps and records, the proceedings for river widening, and a record of all street appropriations for the past five years; also the collection and classification of all ordinances granting rights to steam railroads to lay and maintain switches and side tracks in and across public streets.

PLATS AND SUB-DIVISIONS.

Twenty-four plats or sub-divisions were submitted to this division for examination and correction before being approved by the Board of Control and Council. The list, with names, location and date of approval, will be found in Table No. 10 of this report.

NEW STREETS AND ALLEYS.

Fifteen new streets and alleys were laid out and dedicated to public use in the new sub-divisions, amounting to 2.76 miles. The names, length and location of the new streets and alleys, with the date of dedication, will be found in Table No. 14.

STREET MONUMENTS.

The entire work of caring for street monuments has been assigned to the division of Plats and Surveys. Special care has been taken to preserve the location of these monuments by proper references, and for resetting the same as soon as practicable after the different street improvements are completed. The following list will show the amount of this work done during the past year:

Number of monuments referenced	432
Number of monuments reset from reference	192
Number of monuments tested	57
Number of monuments reset from surveys .	36
Number of monument locations changed .	2
Total	719

HOUSE NUMBERING.

Nine streets, with a total length of 4.6 miles, were numbered or renumbered during the past year. It required the location of 555 buildings and the assigning of 2,490 numbers upon the maps in their proper location and distance apart.

At present there is no official house numberer to put up street numbers after the Council has ordered the streets numbered, and a survey and map has been made and the numbers assigned by this division. Only a limited number of the residents of any such street ever call at the office to find their correct numbers and then put them up, and when they do it is quite often a number that is already in use upon some other part of the street, causing much confusion.

The present ordinance, which provides for an official house-numberer, and authorizes him to collect from the property owner 25 cents for each number put up, is entirely wrong in principle and unsatisfactory in practice. On this point I quote from my preceding annual report:

"The present method of placing numbers on houses is entirely unsatisfactory, both to the property owners and to the city.

"The person designated as house numberer is allowed to collect 25 cents from each house owner after painting and placing upon his house the proper number, which consists of plain black figures on a small zinc plate tacked to the building. Very many persons will not pay for such a number, often because of its cheapness, often because they do not want their house renumbered; or have no money at hand to pay for the same, and refuse to allow the old numbers to be removed and new ones put up.

In my judgment, the city should pay the cost of putting up all street numbers and after a reasonable time, sufficient to accustom people to the change, should cause the old numbers to be removed from the houses to prevent the duplication of numbers upon the same street. This work should be done by the Police Department or by a proper officer clothed with police powers, as no other would be likely to succeed, especially in sections where serious objections are made to such change."

A new ordinance should be passed giving ample authority to put up new numbers and to remove old ones. A proper officer should then be appointed to carry out its provisions, as a large number of maps are now ready for such person.

STREET LEVELS.

Before any kind of street improvement is made levels must be run, profiles made, and the grade established by an ordinance of the Council.

If the improvement is to be either grading and curbing or grading and paving the street is cross-sectioned and quantities are worked out to determine the cubic yards of earth to be removed.

One hundred and twenty-nine streets and alleys were leveled or cross-sectioned and quantities determined during the year, amounting to 20.8 miles.

GRADES ESTABLISHED.

Upon a majority of all streets grades are established long before any improvement is made, that property owners may so place their fences, buildings, etc., that when improvements are made in the street that damage is reduced to a minimum.

So general is this done in advance of the improvement that, while 114 streets were prepared during the year for improvement, in 1899, representing 28.5 miles, grades were established upon only 30 streets, representing 5.25 miles.

CITY DATUM, OR BASE OF LEVELS.

It is customary in all cities, upon all Government work and upon all railroads, canals and other great public works, to establish a datum, zero, or base of levels from which all heights or elevations are given. This datum is usually a known elevation above sea level.

The zero or datum for Cleveland was fixed by ordinance in 1854 at the elevation of the high water in Lake Erie in 1838, which is said in the ordinance to be 564 feet above tide water at Albany. More recent levels and data, however, place the elevation at 571.3 feet above mean tide water at that

point, or 572.84 feet above mean tide at Sandy Hook, New York Harbor.

The United States Government zero, from which all its dredging and harbor work at this point is done, and from which all similar work by the city is done, is 2.34 feet below city datum.

All ordinances establishing street grades refer to designated points along the street as being so many feet above the city base of levels, and that the grade line between such designated points shall be uniform and in accordance with a profile of said street, as recorded in a designated profile book on file in the office of the Chief Engineer.

The water in the river and the lake has ranged from .1 to .8 feet below the United States Government base during the season of navigation.

SIDEWALKS.

The bulk of all sidewalks ordered laid by the city are laid by the abutting owners, after receiving a written notice from the city so to do, and no definite record of the number of square feet so laid is kept by the city.

Such walks as are not laid after proper notice are noted and a description of the property made. All such lots are embraced in the delinquent sidewalk list made up by this department in September of each year, and the same is certified to the auditor for collection, with an estimate of the cost of laying the same. When the tax is collected for these delinquent walks the city advertises the work and lays the flagging. All such walks are laid with sawed stone, 2½ inches thick and of the full width of the walk, which is in nearly all instances 6 feet.

The price paid during the year was 12½ cents per square foot for new flagging laid, and 1 cent per square foot for flagging relaid.

Nine thousand six hundred and ninety-nine square feet of new flagging was laid during the year, as compared with 4,202 square feet laid in 1897.

Sidewalk grades were given by this department on thirty-five 35 streets, amounting to 11.8 miles, as against 8.8 miles in 1897.

SEWER AND WATER CONNECTIONS.

Under the authority of a State law the putting in of house sewer and water connections to curb, in advance of paving, is made compulsory when ordered by the city.

When a pavement is contemplated upon any street a notice is served by the notice clerk of this department upon the owner of every lot upon the street, stating the number of sewer and water connections required for such lot; and that if the connections specified in the notice are not already in such connections must be put in within a time specified—usually ten days from date of notice—and if not in at the expiration of such time the city will proceed to put them in and charge the expense to such property.

All such delinquent work is duly advertised by the city and a contract made with the lowest bidder. After the work is done the expense is certified to the city auditor for collection, except as has frequently happened during the past year, the owner pays the amount to the contractor direct as soon as the work is done, to prevent its being placed upon the duplicate for collection.

All sewer and water connections are put in only by persons licensed to do such work. The license is for one year and is issued by the Board of Control upon the filing of a bond in the sum of \$5,000. Each applicant must be recommended by two reputable plumbers or sewer builders, as the case may be, and the application signed by the health officer, the chief engineer and the superintendent of the water works.

There were 140 licenses issued to plumbers and 116 to sewer builders during the year.

One dollar and fifty cents is paid to the city for each sewer connection, which sum pays in part the cost of the city inspection of every connection from the main sewer to the curb line. This inspection should be continued to the street line, after which when extended the connection passes under the supervision of the health officer.

Water connections are put in under the direction of the Water Works Department, for which the sum of \$1.50 is paid to the city for puddling the trench and \$5 for the regulation stop-cock box, and for tapping the main, which in every case

is done by the city with proper tapping machines, without shutting off the water in the mains, as was formerly done.

Upon a careful examination of each lot upon the sixty streets paved last summer it was found that 6,266 connections, sewer and water, were required for the proper accommodation of the property; 4,128 of the required number were found already in place, leaving 1,766 connections to be put in. Of this number 587 were put in by the contractor for delinquent connections, of which only 372 had to be certified to the auditor for collection.

All connections to curb line only are under the supervision of the notice clerk, who has from four to five inspectors under him for the inspection of this work.

All recommendations for permits for sewer connections, whether to curb line or into the lots, are made out by the permit clerk, and aggregate 3,115 for the year. Of this number 2,451 were put in on unpaved streets and only 89 required pavement to be removed to put in the connections, showing the wisdom of requiring all such connections as can be anticipated to be carried to curb line before the paving is laid.

Three hundred and ninety curb connections were extended into the lots and 189 sewer connections were repaired during the year.

The permit clerk also has charge of all construction and repairs except connections to curb line. He has four inspectors to supervise his work.

Under the provisions of an ordinance passed March, 1896, all sewer builders and plumbers before being granted a permit to make a connection in a paved street, must deposit with the city a sum of money sufficient to pay the estimated cost of re-laying the pavement opened, based upon a schedule of prices fixed by the city for each kind of pavement not under guaranty in each of the seven different sections into which the city has been divided.

When guaranteed pavements are opened for making connections the repairs must be made by the paving contractor who gives the guaranty, at a specified per cent. in advance of the price in his contract for paving any such street.

FRONTAGE AND OWNERSHIP MAPS.

Maps and blue prints have been made giving owners' names and lot frontages on two hundred and nine streets, aggregating 50.3 miles. These maps and prints are for use in the offices of the city clerk and city auditor for serving notices and making up assessment sheets for proposed improvements.

Other maps in large numbers are made for the Sewer Department and for plans submitted to the Board of Control; also for the use of inspectors upon each street to be paved.

STREET LIGHTING.

At the close of the year 1898 the streets of the city were lighted by 5,085 gas lamps, 2,141 Welsbach incandescent vapor lamps, and 879 electric arc lamps, a total of 8,105 lamps; a decrease from last year of 2,458 lamps. Even with this large diminution in number of lamps the service is reported as not diminished, but greatly improved.

During the last half of July the old vapor light was displaced by the introduction of an improved light known as the Welsbach incandescent vapor light, guaranteed to give 70 candle power per lamp. The old lamps were guaranteed to give 14 candle power light, but in actual practice fell far short of doing so.

The transfer was intended to be made on the basis of about one new incandescent lamp for two of the old vapor lamps. When the work was completed it was found that 2,146 Welsbach lamps had displaced 4,438 of the old form of light and 35 gas lamps. The Welsbach lamps are intended to be about 300 feet apart instead of 150 feet, as the vapor lamps were placed, making a ratio of about one to two as stated; but at street corners, in many instances, where a lamp lights in four directions, one new light has displaced four old ones. Lamp for lamp, the new lamp costs more than twice as much as the old, but the displacements are more than two to one in favor of the new light, showing little if any increase in cost, while the new light has a large increase in candle power over the old and also has a comparatively smokeless flame, which means a cleaner lamp and better service. I consider the new light

an improvement over the old and think the general public so regard it.

The accompanying tables set forth in detail the cost of the various branches of the lighting service and the number and kind of lights, with the increase and change of each. Each arc lamp has cost \$93.24 for the year, as against \$94.80 in 1897, a difference of \$1.56 per lamp, showing a saving of \$1,335.36 for the year, based upon the number of lamps in use at the beginning of the year.

In gas lighting the price for gas is 80 cents per 1,000 cubic feet, the same as for a number of years; but the lighting and care of the lamps has been done at a reduced rate.

On the east side of the river, the total cost for each gas lamp, including gas, care and maintenance, has been \$16.58, as against \$17.78 in 1897; on the west side of the river, \$16.63, as against \$16.85 for 1897. This reduction, applied to the 3,543 lamps on the east side and the 1,692 on the west side of the river, shows a saving of \$1,053.06, as compared with the previous year.

In the matter of lanterns and supports, the large outlay in one direction has been supplied by the lamps displaced by electric lights in other locations. The changing of the old vapor lamp to the new improved incandescent lamp has alone thrown out of service 2,329 lamp posts, which are available for future extensions of either vapor or gas lamps.

The payment into the City Treasury, under the provisions of an ordinance passed January 13, 1892, of 6½ per cent. of the gross receipts of the two gas companies, now amounts to \$349,076.50, which, under the provisions of said ordinance, is to be used for the erection of a new City Hall.

ELECTRICAL CONDUITS AND SUBWAYS.

Section 1,090 of the Codified Ordinances of the city and said section as amended August 24, 1896, authorizes the construction of electrical conduits or subways in the public streets of the city by any company or corporation to whom the Council may grant such rights.

All companies or corporations heretofore authorized to erect and operate electric poles and wires in the city are,

within certain territory, required to place all such overhead wires under ground within a certain time.

The three telegraph companies operating in the city use 3-inch wrought iron pipe, with screw joints, for their underground system, using from one to five pipes in the same trench.

The two telephone companies use $4\frac{1}{2}$ -inch terra cotta pipe for their underground work, grouping a greater or less number of pipes in the same trench, usually in series, one above the other. The exterior surface of the group of pipes is coated with hydraulic cement, and is designated a subway.

The telegraph companies laid 3,701 lineal feet of subways, inclosing 7,766 lineal feet of pipes during the year, and have now in the city 31,924 lineal feet of subway, inclosing 101,036 lineal feet of pipe.

The telephone companies laid 92,543 lineal feet of subways, inclosing 1,259,262 lineal feet of pipes, and together have 203,815 lineal feet of subway, inclosing 2,035,392 lineal feet of pipe in the city at this time.

The Western Union Telegraph Company has constructed during the past year 2,285 lineal feet of subway, with 6,350 lineal feet of 3-inch wrought iron pipe inclosed, and has now in use in the city 11,182 lineal feet of subway and 25,315 lineal feet of pipe.

The Postal Telegraph Company constructed 1,416 lineal feet of subway, inclosing one 3-inch wrought iron pipe in each trench. This company has now in use 15,742 lineal feet of subways, inclosing 70,721 lineal feet of pipe.

The American District Telegraph Company has now in use in the city 5,000 lineal feet of subway, embracing a like number of feet of 3-inch wrought iron pipe. This company did not put in any new subways during the year.

The Cleveland Telephone Company has constructed during the year 13,639 lineal feet of subway, with 98,576 lineal feet of $4\frac{1}{2}$ -inch terra cotta pipe inclosed, and has now in use in the city 109,171 lineal feet of subway, with 758,359 lineal feet of pipe.

The Home Telephone Company has made marked progress in its underground system during the year, it having put in more than four times as many lineal feet of underground

pipes as all other telegraph and telephone companies combined. This company constructed 78,904 lineal feet of subway, in which are 1,160,686 lineal feet of $4\frac{1}{2}$ -inch terra cotta pipe.

The company has now in the city 94,646 lineal feet of subway, inclosing 1,277,033 lineal feet of pipe.

By a reservation in the franchise granted to this latter company one-half of the capacity of all the subways and pipes of its underground system is reserved to the city.

CONCLUSION.

Before closing this report, because it deserves an especial place in the records of this department for the year 1898, a year memorable in many ways, I wish to record the names of the men from this department who left their positions in response to the call for troops for the Cuban war, enlisted and served in the army until the war closed.

Their names are: Mr. Walter E. Eddy, from the Sewer Department; Mr. John M. Comstock, from the Survey Department; Mr. William J. Miller, from the Connection Department; and Mr. Orlando L. Weaver, stenographer.

At the close of the war all these men were honorably discharged and returned to their homes in good health and were given their old positions in this office, except Mr. Miller, who is still in the service.

These men deserve, as they have received, the commendation of all patriotic citizens.

The first five of the tables following will give the cost, location, length, name of the contractor, and nature of each improvement made during the year.

Tables Nos. 6, 7 and 8 give in detail the prospective contract work of the department for 1899.

The remaining 14 tables represent, so far as can be tabulated, the work of the department other than contract work, in field and office, during the year just closed.

In conclusion, I wish to express to you, and to all the members of your office, to His Honor the Mayor, and to the several members of the Board of Control and Council, my appreciation of the uniform kindness and consideration shown

to me personally, and to the various members of my department, during the year just closed.

I also desire to express to you my personal recognition of the services rendered to the department and to the city by the members of the various divisions of this department. To Mr. C. G. Force, Assistant Chief Engineer, who during the year has given especial attention to the construction of main and intercepting sewers; to Mr. W. H. Burns, of the Division of Roads and Pavements; to Mr. E. E. Boalt, of the Division of Sewers and Drains; to Mr. J. T. Pardee, of the Division of Viaducts and Bridges; to Mr. A. Strehler, of the Division of Plats and Surveys, and to Mr. Otto Dercum, Chief of the Draughting Department, as heads of their respective divisions, to each of whom and to their assistants under them, is especial credit due for the successful work of this department, as outlined in this report.

Yours respectfully,

M. E. RAWSON,
Chief Engineer.

SUMMARY OF WORK SHOWN IN ACCOMPANYING TABLES.

TABLE.	CLASSIFICATION.	AMOUNT.
1	Street paving.....	\$ 495,906 11
2	Street grading and curbing.....	19,989 92
3	Sewers constructed.....	631,345 12
4	Miscellaneous work and street lighting.....	360,994 56
	Total.....	\$ 1,508,235 71

PROSPECTIVE WORK FOR 1899.

5	Work in progress. Approximate cost.....	\$ 1,026,345 00
6	Paving, grading, etc. Preliminary estimate.....	917,075 00
6	Bridges and river widening. Approximate cost.....	354,667 00
7	Sewers. Approximate cost.....	3,181,702 00
	Total.....	\$ 5,482,789 00
8	Street improvements for which estimates, resolutions and ordinances have been prepared.....	\$ 1,230,186 93

MISCELLANEOUS TABLES.

9	Surveys made.....	192
10	Plats and sub-divisions approved.....	24
11	House numbering maps made.....	9 sts.=4.60 miles
12	Streets cross-sectioned.....	129 sts.=20.8 miles
13	Street grades established.....	30 sts.=5.25 miles
14	Streets and alleys dedicated.....	23 sts.=2.76 miles
15	Street monuments set.....	36
16	House connections, notices, etc.....	2,138 put in
17	House connections constructed.....	3,115
18	Street lighting, cost, etc.....	\$233,776.41
19	Summary of street lighting, etc.....	8,113 total No.
20	Ownership and frontage maps made.....	209 sts.=50.2 miles
21	Sidewalk lines and grades given.....	35 sts.=11.85 miles
22	Electric subways and conduits.....	{ 118,632 lin. ft. subway 1,346,632 " pipe

TABLE No. 1.
STREETS PAVED OR REPAVED DURING 1898.

Name of Street.	From Street.	To Street.	How Improved.	Cost.	Length in Feet.	Contractor.
Amesbury	Hough	Southerly	Brick	\$ 1,845 39	367	M. F. Bramley.
Alabama	St. Clair	L. S. & M. S. R. R.	Medina Block.	15,610 67	1257	Brennan & Buettner.
*Atlas Alley	Ohio	Race	Old Common Medina	721 60	200	Cleveland Contracting Co.
*Bank	Superior	285 ft. north of Lake	Asphalt	19,700 00	1728	Alcatraz Const. Co.
Bell	Cedar	Southerly	Brick	7,284 46	1670	Brennan & Buettner.
*Bond Alley	Bond	Erie	Brick	480 60	482	M. F. Bramley.
Bolton	Quincy	Woodland	Brick	11,224 81	1836	Cleveland Contracting Co.
*Bethesda	St. Clair	Lake	Brick	1,461 60	565	M. F. Bramley.
Buckley	Harbor	Barton	Brick	4,750 00	780	C. H. Burgess.
Beta Alley	Bond	Erie	Old Common Medina	2,853 47	435	Brennan & Buettner.
Cemetery	Quincy	Woodland	Brick	10,373 92	1872	C. H. Burgess.
*Carter	Scranton	C. C. C. & St. L. R. R.	Medina Common Stone	2,088 45	950	M. F. Bramley
Clark	Jennings	Merchants	Brick	4,076 99	579	Roehl Brothers.
Cobleigh	Willson	Easterly end	Brick	1,107 90	364	M. F. Bramley.
Churchill	Doan	Parkwood	Brick	6,226 11	1631	M. F. Bramley.
Cross Alley	Woodland	Broadway	Medina Common Stone	1,860 43	520	Brennan & Buettner.

TABLE NO. 1—Continued.

Name of Street.	From Street.	To Street.	How Improved.	Cost.	Length in Feet.	Contractor.
Davis.....	Lorain.....	Willard	Brick	\$ 3,429 26	747	Cleveland Contracting Co.
Dunham.....	Hough	Wade Park	Brick	11,867 90	2651	Cleveland Contracting Co.
*Duane.....	Franklin	Woodbine	Brick	2,669 14	850	Northern Ohio P. & C. Co.
Ensign	Willson.....	Kinsman	Brick	2,737 28	820	Cleveland Contracting Co.
Eureka Lane.....	Gehring	Columbus	Brick (pav'd by prop'ty owner)	.....	332	M. F. Bramley.
*East Madison	Woodland	Holton	Brick	6,397 16	4042	Northern Ohio P. & C. Co.
*Fairfield.....	Jennings	Pelton	Brick	3,182 40	1018	Brennan & Buettner.
*Pountain	Seneca	Ontario	Medina Common Stone.....	626 51	462	Brennan & Buettner.
Gladstone	Sawtell	Westerly end	Brick	2,671 39	848	C. H. Burgess.
Hickox	Euclid	Prospect.....	Asphalt	2,400 00	461	Cleveland Trin. A. P. Co.
Harbor	Lorain.....	Ravine	Brick	11,210 09	2022	M. F. Bramley.
Holmden	Pearl.....	Jennings	Brick	10,470 56	2800	Brennan & Buettner.
Hamilton	Wood.....	Erie	Asphalt	8,081 82	924	Warren-Scharf A. P. Co.
Jersey	Fulton.....	Monroe	Brick	12,380 00	2221	Roehl Brothers.
Kent	St. Clair	Lake	Asphalt	2,935 79	617	Warren-Scharf A. P. Co.
Kenilworth	Jennings	Pelton	Brick	8,249 80	958	Brennan & Buettner.
Lane	Commercial	Canal	Medina Common Stone.....	2,357 16	332	Brennan & Buettner.
Lincoln.....	Quincy	Woodland	Brick	9,571 69	1820	Brennan & Buettner.

TABLE NO. 1—Continued.

Name of Street.	From Street.	To Street.	How Improved.	Cost.	Length in Feet.	Contractor.
Literary	Merchants.....	Herschel.....	Brick	\$ 11,636 19	1846	Brennan & Buettner.
Mandrake.....	Water	208 ft. westerly	Medina Block.	2,068 93	208	Claffen Pav. & Con. Co.
McLean	Lorain.....	Monroe	Brick	5,924 26	1130	Roehl Brothers.
Minerva	Hough.....	Northerly	Brick	2,706 99	656	M. F. Bramley.
*Monroe.....	Pearl	Willett	Brick	9,937 26	2436	M. F. Bramley.
Murray Hill	Mayfield.....	Adelbert ..	Asphalt	35,318 91	3013	Warren-Scharf A. P. Co.
Oliver	Euclid.....	Superior..	Brick	10,901 97	2444	Condon & Blossburg.
Ontario.....	Central	Factory.....	Asphalt	4,000 00	365	Alcatraz Const. Co.
Ontario... ..	Lake	Summit	Asphalt	3,083 70	374	Warren-Scharf A. P. Co.
Penn	Bridge.....	Monroe	Brick	10,294 03	1807	M. F. Bramley.
Plymouth	Cedar.....	Central	Brick	5,758 07	1449	Brennan & Buettner.
Prospect.....	Erie	Brownell.....	Medina Block (Widening)	4,477 08	1162	Claffen Pav. & Con. Co.
Putnam	Central	Scovill.....	Brick	5,587 10	1223	M. F. Bramley.
*Ridge	Lorain.....	Deunton ..	Asphalt	7,460 64	3969	Claffen Pav. & Con. Co.
Republic	Euclid.....	Lamont	Brick	8,709 00	1776	Condon & Blossburg.
Seneca	Superior.....	St. Clair	Asphalt	8,500 00	816	Alcatraz Const. Co.
Streator	Cedar.....	Quebec	Brick	8,916 90	1774	Cliff-land Contracting Co.
Scranton	Seneca.....	Cliff	Medina Com- mon Stone.....	32,503 50	3015	M. F. Bramley.

TABLE No. 1—Concluded.

Name of Street.	From Street.	To Street.	How Improved.	Cost.	Length in Feet.	Contractor.
Scranton	Clark	Pearl	Asphalt	\$ 40,167 07	4873	Warren-Scharf A. P. Co.
Wade Park	Norwood	Park Boulevard	Brick	44,372 63	7850	Northern Ohio P. & C. Co.
West Clinton	Waverly	Gordon	Brick	4,465 04	1044	Roehl Brothers.
Wood	St. Clair	Summit	Brick	7,735 81	973	Brennan & Buettner.
Woodbridge	Pearl	Rhodes	Brick	14,805 44	2853	Roehl Brothers.
*Woodland	Eagle	Central	Asphalt	337 50	505	Claden Pav. & Con. Co.
Willson	Southerly approach of bridge	Medina Block.	Medina Block.	2,885 41	356	Northern Ohio P. & C. Co.
†Willson	Bower	Broadway	Medina Block.	11,400 00	4602	M. F. Bramley.
Totals				\$486,806 08	90,770—17.2 miles.	

* Amount expended in 1898; not complete.
† Amount expended during 1898 to complete.

TABLE NO. 2.
STREETS GRADED AND CURBED DURING 1898.

Name of Street.	From Street.	To Street.	How Improved.	Cost.	Length in Feet.	Contractor.
Crosby.....	Worley.....	Canton.....	Grade & Curb	\$542 75	593	Dodge & Crosby.
East Clark.....	Petrie.....	Westerly.....	Grade.....	621 13	1870	Dodge & Crosby.
Fairlawn.....	Archwood.....	Dennison.....	Grade and Curb	593 31	629	Northern Ohio P. & C. Co.
Fir.....	Waverly.....	Browning.....	Grade and Curb	1,446 48	1764	Cleve. Contracting Co.
Fountain.....	Clark.....	Train.....	Grade.....	1,500 00	772	C. J. Hoffman.
Herbert.....	Francis.....	Westerly.....	Grade.....	229 20	1060	M. I. DeCelle.
†Kennedy.....	Bolton.....	Oakdale.....	Grade and Curb	480 62	738	C. J. Hoffman.
Kindsvater.....	Willson.....	Norwood.....	Grade and Curb	716 73	756	Northern Ohio P. & C. Co.
Kimmel.....	Bading.....	Hunting.....	Grade.....	6,387 69	1870	M. I. DeCelle.
Kirtland.....	Superior.....	St. Clair.....	Grade and Curb	835 46	1127	Northern Ohio P. & C. Co.
Linton.....	Ackley.....	Westerly.....	Grade.....	435 47	344	Henry Haslem.
Mandrake.....	238 ft. west of Water	Westerly.....	Grade and Curb	80 52	142	Clasen Pav. & Con. Co.
Sherwood.....	Ambler.....	McCurdy.....	Grade.....	709 44	453	M. I. DeCelle.
*Wade.....	Pearl.....	Rhodes.....	Grade and Curb	1,048 00	1800	C. J. Hoffman.
Walton.....	Pearl.....	Pollock.....	Grade and Curb	3,000 00	2974	C. J. Hoffman.
Zoeter.....	Dunham.....	Giddings.....	Grade and Curb	1,383 17	1288	Northern Ohio P. & C. Co.
Totals.....				19,969 92	18,80—3.45 mil *.	

* Amount expended in 1898; not complete.

† Amount expended in 1898 to complete.

TABLE No. 3.
SEWERS CONSTRUCTED IN 1898.

Name of Street.	From Street.	To Street.	Length in Feet.	Kind of Sewer.	Cost.	Contractor.
Alley No. 1.....	Seneca.....	Westerly.....	210	15-in. pipe.....	\$ 1,020 00	Thos. Wood.
†Boulevard.....	Desmond.....	Detroit.....		7 ft. 9-in. Cir. brick.....	720 00	Chas. T. McCracken.
Brinamade.....	Ridge.....	Bigelow.....	1,023	No. 3 brick.....	2,920 00	J. Connelly & Son.
Brandon.....	Mayfield.....	Paul.....	445	No. 4 brick.....	1,530 90	J. Connelly & Son.
Brenton.....	Cedar.....	Central.....	1,353	No. 2 brick.....	2,923 87	A. F. Helm.
†Bergen.....	Train.....	Clark.....	100	7-ft. Cir. brick.....	2,424 30	Campbell Brothers.
Baden Court.....	Baden.....	Easterly end.....	254	15-in. pipe.....	244 67	Ford P. Beers.
			54	No. 2 brick.....		
Billings.....	Euclid.....	East Prospect.....	895	18-in. pipe.....	128 00	Warden & Leese.
			290	15-in. pipe.....		

TABLE No. 3—Continued.

Name of Street.	From Street.	To Street.	Length in Feet.	Kind of Sewer.	Cost.	Contractor.
*Case	Kingsbury Run.....	Woodland	60 678 656	4-ft. Cir. iron pipe... 7-ft. 3-in. Cir. brick.. 7-ft. Cir. brick.....		
		{ Alley opposite Croton	46	No. 2 brick		
		Burwell	45	No. 4 brick	\$ 21,829 00	William Eggers.
		Orange	43	No. 4 brick		
		Berkley	44	No. 5 brick		
		Beek	44	No. 2 brick		
		{ Mason Lane.....	43	No. 2 brick		
	Branches at.....					
China.....	Siam	Chatham	386	15-in. pipe	272 60	Ford P. Beers.
Chandler	1,080 feet S. of St. Clair....	Donald	1,180	No. 3 brick	3,041 74	Helm & Lehmann.
Carlisle	Burton	Selden.....	383	No. 2 brick	821 25	Chas. T. McCracken.
Cornelia	Hodge	Woolsey	827	No. 2 brick	1,765 38	Helm & Lehmann.
Cowley	Miles	Southerly end	561	15-in. pipe	493 33	Ford P. Beers.
Douse	Northerly end	550 ft. S. of Broadway	481	No. 2 brick	884 98	Frank Havin.
Devine	Bailey	N. Y. C. & St. L. Ry.....	424	No. 2 brick	968 18	Clements Brothers.
†Desmond.....	Lake	Boulevard	1,387	9-ft. 6-in. Cir. brick....	23,305 37	L. H. Fahey.

TABLE NO. 3—Continued.

Name of Street.	From Street.	To Street.	Length in Feet.	Kind of Sewer.	Cost.	Contractor.
Detroit	Scovill Lane.....	Lake	{ 38	No. 5 brick	\$ 5,004 49	William Lehmann.
Detroit	Branches at	{ Elsa Place.....	{ 890	No. 4 brick		
		{ West Roy	{ 42	No. 3 brick		
			{ 46	No. 2 brick		
Detroit	Elliot	Landon	{ 464	No. 6 brick	13,820 00	Campbell Brothers.
			{ 615	No. 5 brick		
			{ 606	No. 4 brick		
			{ 134	7-ft. Cir. brick		
*Detroit	Lake ave.....	220 feet W. of Gordon.....	.....	{ For catch basins and to complete }	584 00	Bernard McCarthy.
Detroit	Elliot	Lowell.....	245	No. 4 brick	1,740 00	Ford P. Beers.
Dorothy Place.	Willson.	Easterly end.....	220	12-in. pipe	250 00	Warden & Leese.
Edgewater Park storm over flow for Lake avenue and		Diamond street sewers . . .	936	9-ft. 4-in. Cir. brick.....	28,220 00	Ford P. Beers.
Eglindale.....	Scranton	East View.....	990	No. 2 brick	2,461 53	A. G. Hausmann.
Evins Court.....	Woodland	Southerly end	408	15-in. pipe	343 74	Ford P. Beers.
Elliot	Lake	Detroit	{ 915	6-ft. 2-in. Cir. brick.....	12,101 85	Campbell Brothers.
			{ 282	5-ft. 6-in. Cir. brick.....		
Fountain Alley.....	Seneca.....	Ontario.....	380	No. 4 brick	2,008 00	Ford P. Beers.

TABLE No. 3—Continued.

Name of Street.	From Street.	To Street.	Length in Feet.	Kind of Sewer.	Cost.	Contractor.
Fir	Gordon	Waverly	{ 345 500	{ No. 3 brick	\$ 1,887 57	C. F. Kuents.
Fen	Quincy	C. & P. R. R.	344	No. 2 brick		
Fair Court	Dunham	Easterly end	480	12-in. pipe	788 17	C. F. Kuents.
Folsombe	Alley	Onthwaite	175	12-in. pipe	386 16	A. G. Hausmann.
Fairfield	Pelton	200 feet westerly	211	12-in. pipe	214 75	A. G. Hausmann.
Francis	Willson	Tod	{ 235 985	{ 6-ft. 6-in. Clr. brick.. No. 16 brick	271 70	Helm & Lehmann.
Francis	Branches at	{ Evergreen	40	No. 6 brick	22,735 00	William Eggers.
		{ Sheridan	40	No. 6 brick		
		{ Ears	40	No. 4 brick		
		{ Alexander	40	No. 4 brick		
Franklin	Waterson	Pease Court	{ 280 298	{ No. 7 brick	10,533	Cleve Contracting Co.
			312	No. 6 brick		
			341	No. 5 brick		
Franklin	Branch at	Hinkley	32	No. 3 brick		
				No. 4 brick		

TABLE No. 3—Continued.

Name of Street.	From Street.	To Street.	Length in Feet.	Kind of Sewer.	Cost.	Contractor.
Fairview	Murray Hill	Alley	{ 230 452 }	No. 2 brick 15-in. pipe	\$ 1,097 68	Ford P. Beers.
Finney	Valley	Hooker	751	No. 3 brick	3,320 00	E. Scott Cannell.
Groton	Union	Aetna	{ 1,032 340 }	No. 3 brick No. 2 brick	5,103 00	Cleve. Contracting Co.
Grace	Ridge	Geib	1,337	No. 3 brick	3,235 07	Helm & Lehmann.
Gehring	Pearl	Lorain	625	No. 4 brick	2,797 53	Ford P. Beers.
Gordon	Breakwater	Bridge	{ 44 550 112 }	5-ft. 3-in. Cir. brick.. 4-ft. 9-in. Cir. brick.. No. 11 brick	8,051 25	Bernard McCarthy.
Hurlbut	Payne	Perkins	1,011	No. 3 brick	3,180 70	Chas. T. McCracken.
Hill	Commercial	Harrison	404	No. 4 brick	2,500 00	A. G. Hausmann.
Judd	Perry	Harmon	292	No. 2 brick	648 30	Frank Havin.
Junction	Walworth	Train	434	5-ft. 6-in. Cir. brick...	6,350 00	Clements Brothers.
Jefferson	Tremont	Professor	378	15-in. pipe	259 03	Ford P. Beers.
Jefferson	Tremont	Pelton	444	No. 2 brick	789 13	Ford P. Beers.
Jersey	Bridge	Fulton	{ 165 236 }	No. 2 brick 15-in. pipe	735 00	C. F. Kuentz.

TABLE No. 3—Continued.

Name of Street.	From Street.	To Street.	Length in Feet.	Kind of Sewer.	Cost.	Contractor.
Korman	Woolsey	Ansel	{ 737	No. 2 brick	\$ 2,472 84	William Lehmann.
Keene Alley	Branch st.	Jersey	{ 440	20-in. Cir. brick		
L. S. & M. S. Ry. right- of-way	Waverly	Gordon	42	15-in. pipe	76 30	Rutenbeck Brothers.
			{ 137	8-ft. 6-in. Cir. brick ..	34,268 00	L. H. Fahey.
			{ 1,010	6-ft. 3-in. Cir. brick ..		
			{ 581	5-ft. 6-in. Cir. brick ..		
Libbie	Clark	Brinmade	{ 10	5-ft. 8-in. Cir. brick ..	2,135 00	C. F. Kuents.
			778	No. 2 brick		
†Lake ave.	L. S. & M. S. Ry.	Lower	{ 330	8-ft. 6-in. Cir. brick ..	36,798 00	A. G. Hausmann.
			{ 1,575	8-ft. 3-in. Cir. brick ..		
LeRoy Place	An alley	Southerly end	{ 25	7-ft. 3-in. Cir. brick ..	386 00	P. J. Turnbull.
			340	18-in. pipe		
†Lake ave.	At L. S. & M. S. Ry.	Sawyer	{ 25	6-ft. Cir. brick	522 00	L. H. Fahey.
			{ 833	7-ft. Cir. brick		
†Miles Park st.	Broadway	Sawyer	{ 159	6-ft. Cir. brick	9,525 00	J. Connelly & Son.
			{ 16	3-ft. 6-in. Cir. brick ..		
†Malcolm	Detroit	West Madison	{ 54	No. 4 brick	4,211 00	Chas. T. McCracken.
			247	7-ft. Cir. brick		

TABLE No. 3—Continued.

Name of Street.	From Street.	To Street.	Length in Feet.	Kind of Sewer.	Cost.	Contractor.
Mandrake	Water	Westerly	336	15-in. pipe	\$ 469 00	Ford P. Beers.
Minnesota	Branch st	Payne	61	No. 3 brick	484 89	Ford P. Beers.
Newark	Burton	Selden	468	No. 2 brick	991 28	Frank Hlavin.
Orange	Forest	Humboldt	725	No. 3 brick	1,809 57	J. Connelly & Son.
			342	No. 7 brick		
			614	No. 8 brick		
			596	No. 8 brick		
			151	No. 3 brick		
Oakdale	Quincy	Woodland	1,909	No. 3 brick	7,348 03	Chas. T. McCracken.
Ottawa	Marcelline	Jones	530	No. 4 brick	4,742 47	Chas. T. McCracken.
*Oliver	Superior	Euclid	836	No. 4 brick	1,669 46	J. Connelly & Son.
			330	No. 3 brick		
Pleasant	Clark	1,150 feet southeily	166	No. 3 brick	3,976 14	C. F. Kuents.
Russell	Superior	Wade Park	383	No. 3 brick	2,713 87	C. F. Kuents.
Roberta	Burton	Selden	289	8-ft. Cir. brick	821 25	Chas. T. McCracken.
			86	6-ft. Cir. brick		
Right-of-way	Gordon	Alger	113	No. 4 brick	12,334 00	C. E. Dolittle.

TABLE No. 3—Continued.

Name of Street.	From Street.	To Street.	Length in Feet.	Kind of Sewer.	Cost.	Contractor.
Ridge	Branches at	Halle..... Pisk	52 52	No. 3 brick	\$ 205 90	C. F. Kuentz.
Srobona	Forest	Schneider..... Wentworth.....	45 50	No. 2 brick	235 38 158 27	C. F. Kuentz. T. Garland.
Shaw	Ridge	Easterly end	740	No. 2 brick	396 56	Ford P. Beers.
Stoneman	Kinsman	Easterly end..... 1,000 feet southerly.....	467 { 289 363 402 }	No. 3 brick	2,201 48	C. F. Kuentz.
Simon	Woolsey	Ansel.....	915	No. 2 brick	1,361 09	A. F. Helm.
Sagamore	East Madison	Ingleside	621	15-in. pipe	3,246 75	Ford P. Beers.
Talbot	Amesbury	Ansel.....	578	No. 2 brick	1,962 22	William Lehmann.
Train	Junction	Swiss	{ 68 247 459 }	7-ft. Ctr. brick	153 00	J. N. Humphrey.
Thurman	College	Literary	376	15-in. pipe	1,496 14	J. Connelly & Son.
†Tod	Helsley	Fleet	{ 173 172 613 }	4-ft. Ctr. brick	8,025 00	Clements Brothers.
				6-ft. 6-in. Ctr. brick ..	377 94	Frank Havin.
				6-ft. 3-in. Ctr. brick ..	12 832 00	Helm & Lehmann.

TABLE No. 3—Continued.

Name of Street.	From Street.	To Street.	Length in Feet.	Kind of Sewer.	Cost.	Contractor.
Titus	Serauton	East View	696	No. 2 brick	\$ 1,776 00	A. G. Hausmann.
Valley	Harvard	Finney	718 38 12	No. 5 brick	3,294 10	Cannell & McDowell.
West Roy	Detroit	Franklin	300 290	3-ft. Cir. brick	850 00	Helm & Lehmann.
†Woodland	Eagle	Cross	788 492 82	3-ft. Cir. iron pipe...	8,055 75	E. T. Lauer.
Watterson	Detroit	West Madison	718 317 878 58 63 91	No. 2 brick	22,410 00	Campbell Brothers.
West Clinton	Watterson	230 feet W. of Jordan	308 600 311	No. 4 brick	4,256 29	Ford P. Beers.

TABLE No. 3—Concluded.

Name of Street.	From Street.	To Street.	Length in Feet.	Kind of Sewer.	Cost.	Contractor.
Woodbridge	Rhodes	Burton	482	15-in. pipe	\$ 347 52	J. Connelly & Son.
Wade Park	Dunham	Norwood	277	15-in. pipe	511 00	Helm & Lehmann.
Wilson	Bower	The Bridge	200	12-in. pipe	138 64	John Mahon.
			16	11-ft. 6-in. Cir. brick		
			594	10-ft. 3-in. Cir. brick		
*Walworth	Gordon	646 feet E. of Junction	921	9-ft. 6-in. Cir. brick	65,508 00	Wilson & Strack.
			367	8-ft. 6-in. Cir. brick		
			853	8-ft. Cir. brick.....		
			398	13-ft. 6-in. Cir. brick		
†Walworth	646 feet E. of Junction.....	100 feet W. of Mill	1,938	14-ft. 9-in. Cir. brick	149,066 00	Bramley & Gribben.
			322	12-ft. 3-in. Cir. brick		
Total					\$ 631,345 12	

67,922 lineal feet -- 12.98 miles. 11.41 miles of Brick Sewer. 1.44 miles of Pipe Sewer. .013 miles of Iron Pipe Sewer.

* Amount expended in 1898 to complete. † Amount expended in 1898, not complete.

TABLE No. 4.
MISCELLANEOUS IMPROVEMENTS AND STREET LIGHTING.

Name.	Kind of Improvement.	Cost.	Contractor.
Abbey st. Viaduct.....	Planking and sheeting both roadways.....	\$ 2,866 21	The Kirk-Christy Company.
Abbey st. Viaduct.....	Planking under tracks and in devil strip.....	1,650 02	J. W. Bennage.
Abbey st. Viaduct.....	Wheel guards.....	243 24	Cleve. Saw Mill & Lumber Company.
Abbey st. Viaduct.....	Clips, bolts, etc.....	96 17	Clough & Witt.
*Central Viaduct.....	Planking and sheeting west roadway..	502 35	Cleve. Saw Mill & Lumber Company.
Central Viaduct.....	Planking and sheeting east roadway	3,943 15	Cleve. Saw Mill & Lumber Company.
Central Viaduct.....	Planking under tracks and in devil strip	3,912 28	Work & Yeend.
Central Viaduct.....	Wheel guards	190 12	Cleve. Saw Mill & Lumber Company.
Central Viaduct.....	Clips	16 70	Clough & Witt.
Center st. Bridge.....	Test borings.....	45 50	F. S. Gilbert & Son.
Center st. Bridge.....	Monument stones.....	6 00	Cleveland Stone Company.
Center st. Bridge.....	Land	14,500 00	Cleve. Ship Building Company.
Columbus st. Bridge.....	Air compressor	176 00	Ingersoll-Sergeant Drill Company.
Columbus st. Bridge.....	Idler and pulley	21 50	Clough & Witt.
Columbus st. Bridge.....	Freight charges	5 16	N. Y. C. & St. L. R. R.
Columbus st. Bridge.....	Lead pipe	37 34	The Gibson & Price Company.
Cuyahoga River.....	Dredging	18,147 86	W. E. Rooney.

TABLE No. 4—Continued.

Name.	Kind of Improvement.	Cost.	Contractor.
Erie st. Extension.....	Section 2, protection piles	\$ 88 67	C. J. Engel.
*Erie st. Extension.....	Section 4, pier	2,255 34	The L. P. & J. A. Smith Company.
King-bury Viaduct.....	Planking under track and in devil strip.....	327 39	The Kirk-Christy Company.
†Martin-Praba Bridge	Sub-structure.....	6,443 57	Fisher & Fisher.
Martin-Praba Bridge.....	Right-of-way and slope rights	9,049 00	Various owners.
Pearl st. Viaduct.....	Crescoted planking and blocks for E. roadway	1,375 01	The Michigan Pipe Company.
Pearl st. Viaduct	Strips for block paving	146 90	Cleve. Saw Mill & Lumber Company.
Pearl st. Viaduct.....	Crescoting strips	65 50	The Barrett Manufacturing Company.
Pearl st. Viaduct.....	Planking & sheeting west roadway & center	1,025 70	J. W. Bannage.
Streets and Public Grounds.....	Lighting	233,776 41	Various.
†Warner Road Improvement.....	Culvert	15,255 00	Spallacy, Mayer & Carlisle.
Warner Road Improvement.....	Embankment.....	354 75	Brannan & Baisch.
Warner Road Improvement.....	Land for right-of-way and slope rights.....	18,128 20	Various owners.
†Willett st. Viaduct.....	Sub-structure.....	6,017 10	Nicoll & Otter.
†Willett st. Viaduct.....	Embankment.....	2,400 00	C. J. Hoffman.
Willett st. Viaduct.....	Test borings.....	56 55	F. S. Gilbert & Son.
Willett st. Viaduct.....	Basement and land damages	3,292 48	Various owners.
Willow st. Bridge	Gates	285 00	The King Bridge Company.

TABLE No. 4—Concluded.

Name.	Kind of Improvement.	Cost.	Contractor.
Willow st. Bridge	Catch basin connection	\$ 29 50	G. M. Pierce.
Willow st. Bridge	Repaving	15 68	The Claden Paving Company.
Willow st. Bridge	Resement and land damages	3,000 00	Cleve. & Pittsburg R. R. Co.
*Willson ave. Bridge ..	Superstructure	2,214 09	The King Bridge Company.
†Willson ave. Bridge ..	Embankment	548 57	Brannan & DeCelle.
Willson ave. Bridge ..	Inspection (Mill & Shop)	83 27	The Osborn Company.
Willson ave. Bridge ..	Paving south approach	2,708 00	The Northern Ohio Paving and Constr. Co.
†Willson ave. Bridge ..	Paving north approach	2,205 90	Brennan & Baettner.
Willson ave. Bridge ..	Sewer and connection—south approach	159 64	John Mahon.
Willson ave. Bridge ..	Awards and costs—land damages	4,003 24	Various owners.
Total		\$360,994 56	

* Amount expended in 1898 to complete.

† Amount expended in 1898; not complete.

TABLE NO. 5.
IMPROVEMENTS UNDER CONTRACT AND IN PROGRESS.

Name.	From Street.	To Street.	Kind of Improvement.	Approximate Cost.	Contractor.
Avon alley	Huron	Bolivar	Paving	\$ 1,200 00	Cleveland Contracting Company.
Betheda st.	St. Clair	Lake	Paving	880 00	M. F. Bramley.
Bond alley	Bond	Erie	Paving	1,400 00	M. F. Bramley.
Bridge st.	Pearl	Hurd	Paving	5,100 00	Cleveland Contracting Company.
Bolton ave	Woodland	South Woodland	Paving	4,800 00	R. H. Gray.
*Boulevard, The	Desmond	Detroit	Sewer	13,000 00	Chas. T. McCracken.
*Bergen st	Train	Clark	Sewer	12,500 00	Campbell Brothers.
†Center st. Bridge .....	.....	.....	Sub-structure	35,000 00	The L. P. & J. A. Smith Co.
Carroll st.	Fulton	Easterly	Paving	7,200 00	Campbell Brothers.
*Carter st	Soranton	Big 4 R. R.	Re-paving ..	7,500 00	M. F. Bramley.
Chapel st.	Scovill	Woodland	Paving	4,700 00	Brennan & Buettner.
Cook st.	Harbor	Burton	Paving	4,950 00	Roehl Brothers.
Court place	Broome alley	St. Clair	Re-paving ..	900 00	Claffen Paving & Cont. Co
†Courtland st	Detroit	Lorain	Paving	14,800 00	Roehl Brothers.
*Duane st	Franklin	Woodbine	Paving	3,125 00	Northern Ohio Pav. & Const. Co.
Dibble ave	Willson	Norwood	Paving	7,850 00	Brennan & Buettner.

TABLE No. 5—Continued.

Name.	From Street.	To Street.	Kind of Improvement.	Approximate Cost.	Contractor.
*Diamond st.....	Lake ave	The Boulevard	Sewer	\$18,000 00	L. H. Fahey.
*East Madison	Woodland	Holton	Paving	7,200 00	Northern Ohio Paving & Const. Co.
Florence st	Quincy	Woodland	Paving	9,000 00	Northern Ohio Paving & Const. Co.
*Fairfield st	Jennings	Pelton	Paving	2,000 00	Brennan & Buettner.
*Fountain st	Seneca	Ontario	Paving	1,175 00	Brennan & Buettner.
Freeman st.....	Pearl	Columbus	Paving	4,150 00	Roshl Brothers.
†Greenwood st.....	Central	Scovill	Paving	4,800 00	Cleveland Contracting Co.
*Gordon ave	Breakwater.....	Bridge.....	Sewer	4,000 00	Barney McCarthy.
Harbor st.....	Franklin	Lorain	Paving	12,560 00	M. F. Bramley.
Hickory lane	Muirson	288 ft. westerly	Paving	1,075 00	M. F. Bramley.
Hough place	220 ft. W. Amesbury ..	350 ft. E. Amesbury ..	Paving	2,550 00	Northern Ohio Pav. & Const. Co.
Jesse st.....	Cedar	Central	Paving	7,525 00	Campbell Brothers.
Julia st.....	Sawtell	Wilson	Paving	4,450 00	Brennan & Buettner.
Judd st.....	Brownell	Harmon	Paving	2,575 00	Cleveland Contracting Company.
Jay st	Pearl	Jersey	Paving	5,450 00	Campbell Brothers.
Lorain st	Pearl	McLean	Re-paving	2,400 00	Cleveland Trinidad A. P. Co.
*Lake ave	L. S. & M. S. Ry	Lower	Sewer	33,000 00	A. G. Hausmann.
*Lake ave. at.....	L. S. & M. S. Ry .....	.....	Sewer	14,000 00	L. H. Fahey.

TABLE No. 5—Continued.

Name.	From Street.	To Street.	Kind of Improvement.	Approximate Cost.	Contractor.
†Bridge st.....	Gordon.....	Browning.....	Sewer.....	\$ 2,304 00	C. F. Kuentz.
†Clark ave.....	Walworth.....	Lennox.....	Sewer.....	13,000 00	William Eggers.
†Franklin court.....	Woodbine.....	Mabel.....	Sewer.....	2,493 00	C. F. Kuentz.
Lake Front Improvement	Erie.....	Seneca.....	Pier, Section 6.....	30,000 00	The L. P. & J. A. Smith Co.
Lake Front Improvement	Erie.....	Seneca.....	Pier, Section 7.....	23,000 00	The L. P. & J. A. Smith Co.
Lake Front Improvement	Erie.....	Seneca.....	Pier, Section 8.....	23,000 00	The L. P. & J. A. Smith Co.
Lake Front Improvement	Erie.....	Seneca.....	Pier, Section 9.....	42,000 00	The L. P. & J. A. Smith Co.
Lake Front Improvement	Erie.....	Seneca.....	Pier, Section 10.....	42,000 00	The L. P. & J. A. Smith Co.
*Martin-Praba Bridge.....	.....	.....	Sub structure.....	6,056 00	Fisher & Fisher.
Martin-Praba Bridge.....	.....	.....	Superstructure.....	6,500 00	The Variety Iron Works Co.
Martin-Praba Bridge.....	.....	.....	Embankm't & Paving.....	7,000 00	C. J. Hoffman.
*Miles Park st.....	Broadway.....	Sawyer.....	Sewer.....	2,500 00	J. Connelly & Son.
*Malcolm st.....	Detroit.....	West Madison.....	Sewer.....	21,000 00	Chas. T. McCracken.
Mechanic st.....	Lorain.....	Bailey.....	Paving.....	7,800 00	Campbell Brothers.
Main st.....	Water.....	East River.....	Paving.....	5,200 00	Claden Paving & Con. Co.
*Monroe st.....	Pearl.....	Willett.....	Paving.....	6,200 00	M. F. Bramley.
Orange st.....	Humboldt.....	Cass.....	Paving.....	9,970 00	Brennan & Buettner.
Pearl st.....	Franklin.....	Walworth Run.....	Paving.....	33,000 00	Cleve. Trinidad Asp. Co.

TABLE No. 5—Continued.

Name.	From Street.	To Street.	Kind of Improvement.	Approximate Cost.	Contractor.
Princeton	Hough	Linwood	Paving	\$ 4,850 00	Northern Ohio Paving & Const. Co.
Quincy st.	Bolton	Woodland Hills	Paving	36,600 00	Brennan & Buettner.
Race st.	Ontario	Westerly	Paving	1,760 00	Claassen Paving & Con. Co.
*Ridge ave	Lorain	Dennison	Paving	31,500 00	Claassen Paving & Con. Co.
Rose st.	Bridge	Jay	Paving	15,501 00	M. F. Bramley.
St. Clair st	Water	Big 4 R. R.	Re-paving	4,200 00	M. F. Bramley.
Superior st	Spring	Cuyahoga	Re-paving	5,400 00	M. F. Bramley.
Sayles st.	Cedar	Quebec	Paving	8,350 00	Northern Ohio Pav. & Const. Co.
Superior st. Viaduct	W. end swing	W. end masonry	Re-paving	13,500 00	Alcatraz Asphalt Paving Co.
Steinway ave	South Woodland	Woodland	Paving	8,450 00	Brennan & Buettner.
Scott st.	Detroit	Bridge	Paving	8,200 00	Campbell Brothers.
*Tod st.	Helsley	Fleet	Sewer	14,000 00	Helm & Lehmann.
*Union st.	Broadway	Woodland Hills	Sewer	4,000 00	Campbell Brothers.
*Woodland	Eagle	Cross	Sewer	3,500 00	E. T. Lauer.
Walworth st	Section 3 .....	.....	Sewer	183,000 00	Bramley & Gribben.
*Walworth st	Section 2 .....	.....	Sewer	56,500 00	Bramley & Gribben.
*Willson ave. Bridge .....	.....	.....	Embankment	3,750 00	Brannan & DeCelle.
*Willson ave. Bridge .....	.....	.....	Paving N. approach	939 00	Brennan & Buettner.

TABLE No. 5.—Concluded.

Name.	From Street.	To Street.	Kind of Improvement.	Approximate Cost.	Contractor.
*Willett st. Viaduct.....	.....	.....	Sub-structure.....	\$ 37,000 00	Nicoll & Otter.
*Willett st. Viaduct.....	.....	.....	Embankment.....	8,100 00	C. J. Hoffman.
*Warner Road Improv't.	.....	.....	Culvert	4,745 00	Spellacy, Mayer & Carlisle.
*Wade ave	Pearl	Rhodes	Grade and curb	500 00	C. J. Hoffman.
West Clinton st	Waterson	Easterly	Grade and curb	613 70	C. J. Hoffman.
*Woodland ave.....	Eagle	Central	Repaving	7,250 00	Claffen Paving & Con. Co.
Willett st.....	Lorain.....	100 ft. N. of Monroe...	Paving	18,000 00	Brennan & Buettner.
West Madison ave.....	Waverly	Gordon	Paving	6,300 00	Campbell Brothers.
Total .....	.....	.....	.....	\$1,026,345 00	

* Work commenced.
† Approximate cost to complete.

TABLE No. 6.

PROSPECTIVE STREET IMPROVEMENTS, OTHER THAN SEWERS, FOR 1899.

The first installment of taxes for the same was due and payable in December, 1898, or funds otherwise provided.

Name of Street.	From Street.	To Street.	Kind of Improvement.	Length in Feet.	Amount of Preliminary Estimate.
†Avon Alley.....	Huron.....	Bolivar.....	Medina Common Stone paving.....	400	\$ 1,200 00
Arlington.....	Cedar.....	Scovill.....	Brick paving.....	2960	17,113 00
Ansel.....	Hough Extension.....	Republic.....	Curbing.....	593	1,005 00
Baden.....	Quincy.....	Central.....	Brick paving.....	970	5,398 00
Beechwood.....	Cedar.....	Quincy.....	Asphalt.....	2273	15,760 00
†Bolton.....	Woodland.....	South Woodland.....	Brick paving.....	697	5,008 00
†Bond alley.....	Bond.....	Erie.....	Brick paving.....	482	1,893 00
†Bethesda.....	Lake.....	St. Clair.....	Brick paving.....	565	2,301 00
Becker.....	Superior.....	St. Clair.....	Brick paving.....	3040	20,038 00
*Buckley.....	Burton.....	Harbor.....	Brick paving.....	779	4,750 00
Birch.....	Detroit.....	Lorain.....	Brick paving.....	3185	17,232 00
Burton.....	Clark.....	Storer.....	Brick paving.....	2570	14,802 00
†Bridge.....	Pearl.....	Hurd.....	Brick paving.....	744	5,486 00
Oreighton.....	Perry.....	Chapel.....	Brick paving.....	511	2,423 00
Columbus.....	Center.....	Columbus st. Bridge.....	Medina Block repaving.....	1964	45,398 00
†Chapel.....	Scovill.....	Woodland.....	Brick paving.....	947	4,768 00

DEPARTMENT OF PUBLIC WORKS.

TABLE No. 6—Continued.

Name of Street.	From Street.	To Street.	Kind of Improvement.	Length in Feet.	Amount of Preliminary Estimate.
*Churchill	Doan	Parkwood	Brick paving	1621	\$ 6,226 00
†Court Place	Broome Alley	St. Clair	Asphalt repaving	182	900 00
Curtiss	Willson	Easterly end	Brick paving ..	1117	6,222 00
Charles	Scovill	Woodland	Brick paving	940	5,721 00
†Carroll	Fulton	192 ft. W. of York	Brick paving	1240	7,803 00
†Courtland	Detroit	Lorain	Brick paving	3203	17,386 00
Church	Pearl	Duane	Brick paving	1625	8,679 00
†Carter	Scranton	C. C. C. & St. L. R'y	Medina Common Stone repaving	950	10,166 00
Clark	Gordon	Lorain	Brick paving	4178	30,186 00
†Cook	Harbor	Burton	Brick paving	776	5,072 00
Carabelli	Mayfield	1208 ft. Northerly	Curbing	1208	1,332 00
†Duane	Franklin	Woodbine	Brick paving	850	5,202 00
†Dibble	Willson	Norwood	Brick paving	1591	8,632 00
Dare	Detroit	Lorain	Brick paving ..	3181	17,186 00
†East Madison	Woodland	Holton	Brick paving	2161	14,398 00
Edgewood place	Euclid	1012 ft. Northerly	Brick paving	1012	5,318 00
†Florence	Quincy	Woodland	Brick paving	1894	9,975 00
†Freeman	Pearl	Columbus	Brick paving	545	4,170 00
†Greenwood	Central	Scovill	Brick paving	929	4,875 00

TABLE NO. 6—Continued.

Name of Street.	From Street.	To Street.	Kind of Improvement.	Length in Feet.	Amount of Preliminary Estimate.
Gordon	Detroit	Franklin	Brick paving	734	\$ 6,012 00
Gordon	Franklin	Bridge	Brick paving	478	3,665 00
Gordon	Bridge	West Madison	Brick paving	1,291	9,000 00
Gordon	West Madison	Lorain	Brick paving	870	7,627 00
Gordon	Lorain	Clark	Brick paving	1,759	13,383 00
Grove	Groton	Orange	Curbing	541	524 00
Grand Army Court	Pearl	400 ft. Easterly	Grading	400	180 00
†Hickory Lane	Muirson	268 ft. Westerly	Brick paving	268	1,091 00
†Hough Place	200 ft. N. of Amesbury	350 ft. S. of Amesbury	Brick paving	620	2,782 00
Henry	Scovill	Woodland	Brick paving	965	5,367 00
Halsey	Cedar	Quebec	Brick paving	1,735	8,980 00
†Harbor	Franklin	Lorain	Brick paving	2,120	14,136 00
Haven	Superior	City Limits	Curbing	596	536 00
Holton	East Madison	C. & P. R. R.	Curbing	1,465	1,909 00
Jefferson	Herschel	Broadway	Medina Common Stone paving	2,280	23,315 00
†Jessie	Cedar	Central	Brick paving	1,510	7,967 00
†Judd	Brownell	Harmon	Brick paving	681	2,631 00
†Julia	Sawtell	Willson	Brick paving	840	4,600 00
†Jay	Pearl	Jersey	Brick paving	1,123	6,049 00

TABLE No. 6—Continued.

Name of Street.	From Street.	To Street.	Kind of Improvement.	Length in Feet.	Amount of Preliminary Estimate.
John	Woodbine	Harbor	Brick paving	871	\$ 5,610 00
Kentucky	Woodbine	Bridge	Brick paving	606	4,117 00
Kentucky	Woodbine	Franklin	Brick paving	752	4,448 00
Keene Alley	Pearl	Penn	Brick paving	1640	4,957 00
Krupp Alley	Keene Alley	Monroe	Brick paving	869	4,028 00
Lodge	Central	Quincy	Brick paving	946	5,164 00
Linden	Central	Woodland	Brick paving	2130	11,407 00
Logan	Cedar	Quebec	Brick paving	1800	9,312 00
†Lorain	Pearl	McLean	Asphalt repaving	240	2,816 00
Liberty	Franklin	Lorain	Brick paving	2319	12,848 00
Lake View	Superior	N. Y. C. & St. L. R. R.	Curbing	2282	4,162 00
Lucail	Euclid	Mayfield	Grading	991	461 00
†Main	Water	East River	Medina Common Stone paving	878	5,200 00
*Mandrake	Water	208 ft. W. of Water	Medina Block paving	208	2,069 00
Mayflower	Woodland	Croton	Brick paving	984	5,135 00
†Mechanic	Lorain	Bailey	Brick paving	1380	8,487 00
Mill	Monroe	C. C. C. & St. L. Ry	Brick and Medina Common paving	715	5,524 00
*Mandrake	208 ft. W. of Water	350 ft. W. of Water	Curbing	142	80 00
†Orange	Humboldt	Case	Brick paving	1770	10,587 00

TABLE NO. 6—Continued.

Name of Street.	From Street.	To Street.	Kind of Improvement.	Length in Feet.	Amount of Preliminary Estimate.
Oak Park	Detroit	734 ft. Southerly	Curbing	794	\$ 744 00
*Prospect	Erie	Brownell	Widening and Medina Block paving	1162	4,477 00
Perkins	Case	Willson	Brick paving	1764	16,250 00
†Princeton	Hough	Linwood	Brick paving	913	5,164 00
Putnam	Seovill	Woodland	Brick paving	1135	6,825 00
†Pearl	Franklin	Walworth Run Bridge	Asphalt repaving	3260	43,793 00
Prim	Clark	Storer	Grading	2800	4,486 00
†Quincy	Bolton	Woodland Hills	Medina Block paving	3490	45,837 00
Quincy	Willson	Giddings	Brick paving	3287	13,367 00
Quebec	Oakdale	Doan	Curbing	1704	2,623 00
†Race	Ontario	Westerly	Brick paving	398	1,760 00
Richland	Central	Quincy	Brick paving	951	5,050 00
Root	Franklin	Lorain	Brick paving	2286	12,812 00
†Rose	Bridge	Jay	Brick paving	232	1,585 00
Randall	Harbor	Bridge	Brick paving	1040	9,031 00
†Sayles	Cedar	Quebec	Brick paving	1753	8,872 00
†St. Clair	Water	C. O. C. & St. L. Ry	Medina Common Stone repaving	485	4,239 00
†Superior	Spring	Cuyaboga River	Medina Common Stone repaving	500	5,481 00
†Steinway	Woodland Hills	South Woodland	Brick paving	1345	8,900 00

TABLE No. 6—Continued.

Name of Street.	From Street.	To Street.	Kind of Improvement.	Length in Feet.	Amount of Preliminary Estimate.
†Scott	Detroit	Bridge	Brick paving	1638	\$ 8,683 00
‡Scranton	Cliff	Paradise	Medina Common Stone repaving	2214	15,213 00
Scott	Bridge	Scott Alley	Brick paving	1090	5,579 00
Scott Alley	Scott	Courthaud	Brick paving	340	1,027 00
South Willson	Fleet	Mound	Grading	1556	571 00
Sophia	Woodland Hills	Wilhelm	Grading and Gutter paving	908	1,339 00
Stoneman	Kinsman	1000 ft. Southerly	Grading	1000	506 00
Storer	Rhodes	1160 ft. Easterly	Grading	1160	407 00
†Superior st. Viaduct	Draw	W. end of Masonry	Asphalt repaving	2111	13,500 00
Taylor	Detroit	Lorain	Brick paving	2948	15,698 00
Tharman	Literary	Pelton	Brick paving	686	3,493 00
Tustin	625 ft. E. of Forest	Easterly end	Grading and Gutter paving	132	227 00
Vienna	Cedar	Southerly	Brick paving	1634	8,438 00
Vanet	Fort	Kinsman	Curbing	2340	6,021 00
White	Willson	Norwood	Brick paving	1600	9,064 00
Wallingford Court	Woodland	Southerly end	Brick paving	850	3,893 00
Woodbine	Fulton	Randall	Brick paving	1706	11,204 00
Whitman	Woodbine	Harbor	Brick paving	1664	10,035 00
†Willett	Lorain	100 ft. S. of Monroe	Medina Block paving	1462	23,092 00

TABLE No. 6—Continued.

Name of Street.	From Street.	To Street.	Kind of Improvement.	Length in Feet.	Amount of Preliminary Estimate.
†West Madison	Waverly	Gordon	Brick paving	1061	\$ 6,594 00
Wilhelm	Holton	Southerly end	Curbing	1225	2,139 00
‡West Clinton	Waterson	Easterly	Curbing	758	613 00
Totals				153,689 ft.— 28.9 miles.	\$ 917,075 00

* Work completed.
† Under contract.
‡ Tax collected previous to December, 1898.

TABLE No. 6—Concluded.

Name.	From	To	Kind of Improvement.	Approximate Cost.
Center st. Bridge			Construction	\$ 40,000 00
Center st. Bridge			Land	8,500 00
Jefferson st. Bridge			New West Abutment	12,000 00
Middle Seneca st. Bridge			New Turntable	10,500 00
River Widening	Main st.	Old River Bed	Docks and Dredging	25,000 00
River Widening	Main st.	Old River Bed	Land	65,150 00
River Widening	Superior st.	40 ft. S. of Elm st.	Docks and Dredging	30,000 00
River Widening	Superior st.	40 ft. S. of Elm st.	Reinforcing Viaduct Pier	50,000 00
River Widening	Superior st.	40 ft. S. of Elm st.	Land	51,717 00
River Widening	At Main st. Bridge		Reinforcing Pier	3,000 00
Superior st. Viaduct			Reflooring Iron Portion	5,000 00
Warner Road			Embankment	16,000 00
Willett st. Viaduct			Construction and Land	37,900 00
Total				\$354,667 00

TABLE No. 7.
SEWERS—PROSPECTIVE FOR 1899.

Name of Street.	From Street.	To Street.	Length in Feet.	Approximate Cost.
Avon Al.....	Huron.....	Bolivar.....	840	\$ 1,400 00
Allman Ct.....	Starkweather.....	E. and W. ends.....	590	1,951 00
Broadway.....	Warner Road.....	Miles Park.....	600	3,000 00
Browning.....	Franklin.....	Bayne.....	710	4,898 00
Burton.....	Storer.....	Rhodes.....	1,740	17,431 00
Blaine.....	Marcy.....	Crawford.....	1,200	4,527 00
Bayne.....	Gordon.....	Waterson.....	1,300	5,209 00
Basetta.....	West Madison.....	Willard.....	2,000	11,751 00
Berlin.....	West Madison.....	Lorain.....	2,250	17,450 00
Belmont.....	Woodland.....	Orange.....	400	1,940 00
Beaver.....	Nicola.....	Chester.....	600	3,908 00
Beaver.....	Geneva Al.....	Chester.....	700	4,703 00
Baldwin.....	Dean Brook.....	Giddings Brook.....	3,000	50,000 00
Bridge.....	Gordon.....	Browning.....	750	2,804 00
Case.....	Lake Erie.....	Enclid.....	7,000	200,000 00
Chatham.....	Pearl.....	Willett.....	2,350	23,000 00

DEPARTMENT OF PUBLIC WORKS.

TABLE No. 7—Continued.

Name of Street.	From Street.	To Street.	Length in Feet.	Approximate Cost.
Carran.....	Congress.....	Bolton.....	600	\$ 2,804 00
Congress.....	Quincy.....	Carran.....	750	5,860 00
Conover.....	West Madison.....	Lorain.....	2,500	28,198 00
Colfax.....	Deckard.....	150 feet west of Herald.....	1,870	9,142 00
Colfax.....	Easterly end.....	300 feet west of N. E. ave.....	770	2,073 00
Congress.....	Carran.....	Remington.....	970	6,309 00
Clark.....	Isabella.....	Gilbert.....	1,530	20,213 00
Clark.....	Walworth.....	Lennox.....	650	13,000 00
Camden.....	Lenox.....	Bigelow.....	2,450	30,779 00
Conrad.....	Higgins.....	Ridge.....	940	3,550 00
Davis.....	West Madison.....	Willard.....	2,020	9,916 00
Diemer.....	Spilker.....	St. Clair.....	500	1,807 00
Deckard.....	Kinsman.....	Colfax.....	350	2,100 00
Dean.....	Lake Erie.....	City Limits.....	10,400	385,000 00
Eben.....	Harvard.....	Finney.....	600	2,276 00
East Madison.....	Holton.....	Southerly.....	360	3,997 00
Edmunds.....	Amesbury.....	450 feet easterly.....	450	1,719 00
Ewald.....	East Madison.....	Grand.....	450	1,891 00

TABLE NO. 7—Continued.

Name of Street.	From Street.	To Street.	Length in Feet.	Approximate Cost.
Eric.....	Superior.....	Woodland.....	3,670	\$ 73,807 00
Franklin.....	Malcolm.....	Pease Court.....	920	6,606 00
Franklin.....	Waterson.....	220 feet west of Gordon.....	1,410	10,048 00
Fairview.....	Mayfield.....	Lake View Cemetery.....	760	2,066 00
Frease.....	Burton.....	Northerly end.....	1,570	14,099 00
Fountain.....	Train.....	Clark.....	800	14,656 00
Franklin Ct.....	Woodbine.....	Mabel.....	660	2,488 00
Glass.....	Light.....	Norwood.....	400	1,631 00
Gauge.....	Train.....	Clark.....	900	9,483 00
Garden Pl.....	Central.....	Northerly end.....	860	690 00
Hawthorne.....	Willson.....	Second.....	1,770	7,525 00
Home.....	East Madison.....	Westerly end.....	300	1,524 00
Hartnell.....	West Madison.....	Lorain.....	2,220	10,898 00
Harrison.....	Hill.....	350 feet southerly.....	490	1,890 00
Hicks.....	Franklin.....	Bridge.....	730	3,163 00
Hazen.....	Perry.....	Chapel.....	450	1,843 00
Hope.....	Higgins.....	Ridge.....	1,040	3,927 00
Hillman.....	Broadway.....	Ted.....	1,000	3,490 00

DEPARTMENT OF PUBLIC WORKS.

TABLE No. 7—Continued.

Name of Street.	From Street.	To Street.	Length in Feet.	Approximate Cost.
Higgins.....	Clark.....	Lorain.....	1,490	\$ 7,372 00
Interceptor in Lake st.....	Water.....	Muirson.....	4,100	166,000 00
Interceptor in Boulevard.....	Adams.....	Dosa.....	12,000	643,500 00
Interceptor, Turn'1 Tunnel and Works Kilfoyl.....	Glass.....	Carl.....	550	98,500 00
Keene Al.....	Jersey.....	Penn.....	380	1,701 00
Kentucky.....	Woodbine.....	Whitman.....	330	472 00
Lewiston.....	St. Clair.....	Bliss.....	1,230	1,311 00
London.....	Detroit.....	West Madison.....	860	4,806 00
Lowell.....	Detroit.....	Franklin.....	560	4,423 00
Lower.....	Lake ave.....	Detroit.....	1,590	2,162 00
Lennox.....	Clark.....	Southerly end.....	850	7,339 00
Meridian.....	Marcy.....	Crawford.....	780	9,731 00
Mary.....	Superior.....	Wade Park.....	1,700	2,707 00
Muirson.....	Lake Erie.....	Walnut.....	2,080	18,013 00
Miles Park.....	Sawyer.....	Woodland Hills.....	1,150	50,000 00
Norwood.....	St. Clair.....	Hough.....	6,200	15,000 00
Northeast.....	Kinsman.....	Hillside.....	680	199,042 00
				\$18 00

TABLE No. 7—Continued.

Name of Street.	From Street.	To Street.	Length in Feet.	Approximate Cost.
Nicola.....	Kinsman.....	Beaver.....	600	\$ 3,289 00
Oxford.....	L. S. & M. S. R. R.....	St. Clair.....	2,430	106,770 00
Pratt.....	Woodland Hills.....	Easterly end.....	1,300	18,444 00
Purdy.....	Walworth.....	Lorain.....	1,400	6,368 00
Petrie.....	Morgan Run.....	Vivian.....	2,300	36,540 00
Rowley.....	Jennings.....	Merchant.....	880	2,495 00
Scranton.....	Walworth.....	Kenilworth.....	1,800	20,000 00
St. Clair.....	Wason.....	Lawrence.....	1,120	7,687 00
Seward.....	Lake.....	Detroit.....	800	3,713 00
Spilker.....	East Madison.....	Diemer.....	450	2,118 00
Scott A1.....	Courtland.....	Scott.....	380	761 00
Storer.....	Burton.....	Rhodes.....	800	4,884 00
Storer.....	Burton.....	Gauge.....	930	5,761 00
Superior.....	Muirson.....	Erie.....	700	9,426 00
Thurman.....	Pelton.....	Literary.....	660	1,080 00
Trumbull.....	Humboldt.....	Forest.....	560	3,042 00
Tod.....	Fleet.....	Fullerton.....	350	2,964 00
Train.....	Gauge.....	Junction.....	1,140	15,769 00

TABLE NO. 7—Concluded.

Name of Street.	From Street.	To Street.	Length in Feet.	Approximate Cost.
Turney	Warner Road.....	Force.....	1,000	\$ 12,000 00
Vestry.....	Pearl	York.....	480	2,400 00
Wilhelm.....	Holton	Southerly end.....	1,260	8,640 00
Warden.....	Pearl	Easterly end.....	560	900 00
Wellington	Detroit	West Madison.....	1,000	18,672 00
West Trenton.....	Detroit	Franklin.....	600	2,070 00
West Madison	Gordon.....	Pennington.....	2,150	19,284 00
West Madison.....	Pennington.....	Malcolm.....	1,570	15,283 00
West Madison.....	Malcolm.....	Wellington.....	2,050	18,640 00
West Madison.....	Wellington.....	Besse Road	3,080	41,165 00
Woodland.....	Erie.....	Maple.....	3,980	34,369 00
Woodland.....	Maple.....	Case	2,380	18,387 00
Woodland.....	Case	Willson.....	2,130	36,000 00
Walnut.....	Muirson.....	Erie.....	570	2,958 00
Warner Road.....	Turney.....	Broadway.....	800	5,000 00
Walworth.....	Section No. 3.....		3,000	183,000 00
Walworth.....	Section No. 4.....		2,000	184,000 00
Totals.....			168,460	\$8,184,702 00

TABLE No. 8.
STREET IMPROVEMENTS OTHER THAN SEWERS,
For which Approximate Estimates have been Made, Resolutions and Ordinances Prepared in
Order to Assess a Tax.

Name of Street.	From Street.	To Street.	Proposed Improvement.	Approximate Cost.
Amesbury	Hough	Crawford	Brick paving	\$ 8,968 20
Arlington	Cedar	Scovill	Brick paving	4,600 72
Barton	Clark	Storer	Brick paving	14,301 81
Birch	Detroit	Lorain	Brick paving	17,282 01
Betheda	St. Clair	Lake	Brick paving	2,301 86
Becker	Superior	St. Clair	Brick paving	20,083 69
Brainerd	Jennings	Saranton	Brick paving	11,264 08
Buhrer	Jennings	Saranton	Brick paving	9,974 50
Baden	Central	Quincy	Brick paving	5,398 36
Blair	Cedar	Central	Brick paving	5,104 95
Belmont	Woodland	Croton	Brick paving	5,177 51
Burt	Cedar	Quebec	Brick paving	9,567 46
Burt	Cedar	Quebec	Asphalt paving	12,876 22
Bollvar	Sheriff	Ontario	Medina Block paving	1,084 25

TABLE No 8—Continued.

Name of Street.	From Street.	To Street.	Proposed Improvement.	Approximate Cost.
Braddon.....	Millford.....	Hartford.....	Grading.....	\$ 104 94
Bertram.....	Cedar.....	Central.....	Brick paving.....	5,317 78
Broadway.....	Liberal.....	Independence.....	Medina Block re-paving.....	40,242 79
Bertram.....	Cedar.....	Central.....	Asphalt paving.....	8,072 35
Brough.....	Burton.....	Burton Alley.....	Grading.....	142 04
Becker Alley.....	Brough.....	Mechanic.....	Grading.....	48 64
Curtiss.....	Wilson.....	Easterly end.....	Brick paving.....	6,221 59
Churchill.....	Dean.....	Parkwood.....	Brick paving.....	8,497 58
Clark.....	Gordon.....	Lorain.....	Brick paving.....	30,186 05
Cook.....	Burton.....	Harbor.....	Brick paving.....	5,072 06
Charles.....	Scovill.....	Woodland.....	Brick paving.....	5,720 93
Craw.....	Quincy.....	Northerly end.....	Grading and curbing.....	700 78
Chester.....	Woodland.....	Southerly end.....	Brick paving.....	4,538 34
Creighton.....	Perry.....	Chapel.....	Brick paving.....	2,422 92
Cleve.....	Cedar.....	Sibley.....	Brick paving.....	1,400 13
Coleman Alley.....	Iris Alley.....	Easterly end.....	Brick paving.....	1,311 72
Cleveland Court.....	Lorain.....	Abbey.....	Brick paving.....	1,333 04
Case Alley.....	Osborn.....	Kennard.....	Brick paving.....	2,441 95

TABLE NO. 8—Continued.

Name of Street.	From Street.	To Street.	Proposed Improvement.	Approximate Cost.
Cherry	Perry	Liberal	Brick paving	\$ 4,889 27
Case Alley	Kennard	Case	Brick paving ..	1,713 84
Dibble	Willson	Norwood	Brick paving	8,682 31
Dare	Detroit	Lorsin	Brick paving	17,194 69
Dike	Outhwaite	Quincy	Brick paving	6,572 32
Daly	Pearl	Tyler Place	Brick paving	10,773 35
Doan	Euclid	310 feet Northerly	Brick paving ..	2,080 98
East Madison	Woodland	Holton	Brick paving	14,388 17
East Madison	Superior	L. S. & M. S. R.	Medina Block paving	43,676 55
East Madison	Superior	L. S. & M. S. R.	Brick paving	24,472 74
Edgewood Place	Euclid	1,012 feet Northerly	Brick paving	5,523 59
Empress	Barber	Filmore	Grading	888 80
East Madison	Holton	Kinsman	Grading and culvert	31,379 49
Essex	Millford	Gauge	Grading	133 72
Freeman	Pearl	Columbus	Brick paving	4,170 54
Forest	Cedar	Central	Brick paving	4,702 49
Greenwood	Central	Scovill	Brick paving	4,874 61
Geners	Woodland	Beaver	Brick paving	4,529 41

TABLE No. 8—Continued.

Name of Street.	From Street.	To Street.	Proposed Improvement.	Approximate Cost.
Grant.....	Cedar.....	Central.....	Brick paving.....	\$ 6,277 80
Grove.....	Orange.....	Croton.....	Grading and curbing.....	471 60
Giddings.....	Lexington.....	Superior.....	Brick paving.....	16,654 31
Griswold.....	Kinsman.....	Slater.....	Brick paving.....	3,866 42
Greyhound.....	Archwood.....	Dennison.....	Grading and curbing.....	767 32
Grand.....	Herald.....	C. & P. R. R.....	Grading and curbing.....	2,634 76
Henry.....	Scovill.....	Woodland.....	Brick paving.....	5,357 04
Halsey.....	Cedar.....	Quebec.....	Brick paving.....	8,980 21
Hayward.....	Cedar.....	Central.....	Brick paving.....	5,106 44
Hazen.....	Perry.....	Chapel.....	Brick paving.....	2,730 21
Hancock.....	Pearl.....	Green.....	Brick paving.....	5,603 72
High.....	Sheriff.....	Miami.....	Medina Block paving.....	3,181 24
Harkness.....	Marcy.....	Crawford.....	Medina Block paving.....	3,791 80
Ham.....	Broadway.....	Petrie.....	Medina Block paving.....	14,711 97
Holton.....	C. & P. R. R.....	Woodland Hills.....	Grading and curbing.....	7,527 55
Irving.....	Woodland.....	Pittsburgh.....	Brick paving.....	6,148 37
Julia.....	Sawtell.....	Wilson.....	Brick paving.....	4,800 72
Jackson.....	Woodland.....	Pittsburgh.....	Brick paving.....	6,586 04

TABLE No. 8—Continued.

Name of Street.	From Street.	To Street.	Proposed Improvement.	Approximate Cost.
Krupp Alley.....	Keane Alley	Monroe	Brick paving	\$ 4,028 68
Keane Alley	Pearl	Penn.....	Brick paving	4,667 54
Keulworth.....	Jennings	Scranton.....	Brick paving	6,966 10
Kirtland.....	St. Clair.....	L. S. & M. S. R. R.	Medina Block paving	19,926 69
Lucas	Euclid	Mayfield.....	Grading	460 95
Linden	Central	Woodland	Brick paving	11,406 93
Liberty	Franklin	Lorain.....	Brick paving	12,843 02
India	East Madison	Edwards.....	Grading and curbing	795 39
Lake Ave	Detroit	L. S. & M. S. R. R.	Asphalt paving	23,256 30
Logan	Cedar.....	Quebec	Brick paving	9,311 65
Logan Place	Logan	Easterly end	Brick paving	1,543 33
Long	Seneca.....	South Water	Medina Block re-paving	13,280 93
Lower	Detroit	Lake ave	Brick paving	12,053 23
Liberal	Broadway	Cherry.....	Brick paving	3,844 54
Mechanic.....	Lorain.....	Bailey.....	Brick paving	8,496 69
Mandrake.....	Water	208 feet Westerly	Medina Block paving	3,031 63
Mill	Monroe.....	C. C. C. & St. L. Ry.....	Brick and C. M. paving	5,523 59 1
Merchant	Cliff	Auburn.....	Brick paving	22,709 24

DEPARTMENT OF PUBLIC WORKS.

TABLE No. 8—Continued.

Name of Street.	From Street.	To Street.	Proposed Improvement.	Approximate Cost.
Mayflower	Woodland	Croton	Brick paving	\$ 5,134 98
Miles	Broadway	City limits	Brick paving	12,154 85
Melrose	Giddings	East Madison	Grading and curbing	1,181 72
Maple	Central	Woodland	Brick paving	11,119 62
Melrose	East Madison	Genesee	Brick paving	5,551 24
Minerva	Stanley	111 feet Southerly	Brick paving	780 81
Myrtle Court	Sawtell	Westerl. end.	Grading and curbing	1,097 76
Montgomery	Giddings	Parker	Grading and curbing	741 65
Meyer	Pearl	Soranton	Brick paving	3,539 82
Newton	Cedar	Central	Brick paving	4,687 51
Nicola	Kinsman	Beaver	Brick paving	3,423 45
Oakdale	Quincy	Woodland	Brick paving	12,475 58
Oakdale	Woodland	Steinway	Brick paving	8,428 86
Oak Park	Detroit	Southerly	Grading and curbing	728 70
Ocean	Woodland	Bushnell	Brick paving	5,015 60
Outhwaite	Kennard	Cemetery	Brick paving	18,076 43
Ohio	Senece	Stone's Levee	Medina Block paving	17,126 07
Princeton	Hough	Liaewood	Brick paving	5,168 88

TABLE No. 8—Continued.

Name of Street.	From Street.	To Street.	Proposed Improvement.	Approximate Cost.
Petkins.....	Case	Willson.	Medina Block paving	\$ 16,249 14
Putnam.....	Soovill.....	Woodland	Brick paving	6,824 69
Pelton.....	Cliff	Starkweather.....	Brick paving	21,174 76
Pier	Woodland.....	Beaver	Brick paving	3,603 62
Portland.....	Kennard.....	Willson.	Brick paving	6,080 39
Pearl Alley.....	Lorain.....	Northerly end	Brick paving	5,221 37
Quinby.....	Willson.....	Giddings.....	Brick paving	18,387 48
Root.....	Franklin.....	Lorain.....	Brick paving	12,812 72
Randall	Harbor	Bridge.....	Brick paving	9,081 29
Republic Place	Republic.....	Westerly end.....	Brick paving	1,551 90
Ravine	Harbor	Dare.....	Brick paving	11,722 96
Ridge Road	Dennison.....	Southerly City limits.....	Brick paving	7,484 00
Russell	Lexington.....	Superior.....	Brick paving	16,551 23
Sterling	Cedar.....	Woodland	Medina Block paving.....	39,773 74
Steinway	South Woodland.....	Woodland Hills	Brick paving	8,900 68
Storer	Rhodes	1,162 feet Easterly.....	Grading	406 88
Scott	Bridge.....	Scott Alley.....	Brick paving	5,578 81
Sterling	Cedar.....	Woodland	Brick paving	14,770 14

DEPARTMENT OF PUBLIC WORKS.

TABLE No. 8—Continued.

Name of Street.	From Street.	To Street.	Proposed Improvement.	Approximate Cost.
Sanford.....	Woodland	Southerly end	Brick paving	\$ 4,586 41
Superior Viaduct ..	Draw	Masonry end	Asphalt	15,473 12
Stone's Levee.....	Ohio	200 feet Southerly.....	Medina Common paving.....	2,825 76
Shipperd.....	Wade Park.....	Superior.....	Brick paving	9,922 52
Southern.....	Quincy.....	Woodland.....	Brick paving	9,874 00
Scowden.....	Ohio.....	352 feet Southerly	Medina Block paving.....	4,023 23
Sackett.....	Pearl.....	Rhodes	Brick paving	16,701 92
Sheppard.....	Ware.....	Westerly end.....	Grading and curbing	416 57
Sophia.....	Wilhelm.....	Woodland Hills	Grading and curbing	2,932 97
Scott Alley	Scott	Courtland	Brick paving	1,027 36
Tennyson.....	Woodland	Southerly end	Medina Block paving	16,249 19
Thurman.....	Literary	Pelton.....	Brick paving	3,462 83
Trent.....	Selden.....	Gauge	Grading	162 97
Wade Park.....	Norwood	Park Boulevard	Brick paving	49,986 55
Wilhelm.....	Holton.....	Southerly.....	Grading and curbing	2,189 48
White	Willson.....	Norwood.....	Brick paving	9,063 49
Wilcutt.....	Woodland	Beaver.....	Brick paving	4,483 99
Wallingford Court.....	Woodland	Southerly end	Brick paving	3,932 91

TABLE No. 8—Concluded.

Name of Street.	From Street.	To Street.	Proposed Improvement.	Approximate Cost.
West Clinton	Gordon	Waterson	Brick paving	\$ 8,410 88
Woolsey	Superior	St. Clair	Brick paving	24,687 24
Watkins	East Prospect	Cedar	Brick paving	2,168 94
Walker	Broadway	Sawyer	Brick paving	3,332 25
Total, 144 streets.....				\$1,230,186 93

TABLE NO. 9.
SURVEYS MADE IN 1898.

Name of Street.	From Street.	To Street.
Athey.....	Independence	Chard.
Archer.....	Auburndale.....	Alley north.
Bond	Superior	Euclid.
Bond	Lake.....	Summit.
Broadway	Miles	Walker.
Broadway	Location of buildings at Miles avenue.....	
Beta Alley.....	Bond	Erie.
Burton	Rhodes.....	Bush.
Briggs	Lake.....	Davenport.
Bolton.....	Location of houses for East Prospect street extension.	
Bell.....	Location of houses for East Prospect street extension.	
Boulevard.....	Deering.....	Stearns.
Beaver extension.....	Chester	Pier.
Bonney	Hopgood.....	Foster.
British.....	Mervin	Columbus.
Brownell extension	Orange.....	Decatur Al.

TABLE No. 9—Continued.

Name of Street.	From Street.	To Street.
Crawford Place.....	Crawford Road.....	Western end.
Cobleigh.....	Willson.....	Easterly.
Cobleigh (proposed extension).....	Cobleigh.....	Knudsen.
Cliff.....	Soranton.....	Walworth.
Cuyaboga.....	Seneca.....	Dry Dock.
Commonwealth extension.....	Hough.....	Stanley.
Commonwealth extension.....	Gale.....	Superior.
Gutler.....	Location of houses for East Prospect street extension.	
Ghard.....	Pallister.....	Huntington.
Clinton Park.....	Lake.....	Davenport.
Center street bridge (old line).	Location of N. approach.....	
Center street bridge (new line).....		
Center.....	Mervin.....	Columbus.
C. C. C. & St. L. R. R.....	Dennison.....	Clark.
Camden.....	Lennox.....	C. C. C. & St. L. R. R.
Clark.....	Alum.....	N. line of O. L. 34.
C. T. & V. R. R.....	Hopwood.....	Jennings.
Columbus.....	Center.....	Lorain.

TABLE No. 9—Continued.

Name of Street.	From Street.	To Street.
Carter.....	Seranton.....	Erie R. R.
Congress.....	Woodland.....	Quincy.
Dunham.....	Euclid.....	Hough.
Dennison.....	Wyoming.....	E. line of Evans property.
Dennison.....	Robbins.....	1st angle W. of Rhodes.
Dennison.....	Ridge.....	Gordon.
Dennison.....	Jennings.....	Hopgood.
Davenport.....	Clinton Park.....	Briggs.
Deering.....	Fairmount.....	Boulevard.
Doan.....	Euclid.....	Wilbur.
Dellenbaugh.....	East Madison.....	Angle.
Detroit.....	Flint.....	Furnace.
Erie.....	Superior.....	Euclid.
Erie.....	Corner Central.....	Encroachments.
Erie.....	Lake.....	Summit.
Erie.....	Superior.....	Summit.
Engeln.....	Willson.....	Kinsman.
Elm.....	Main.....	Old River Bed.

TABLE No. 9—Continued.

Name of Street.	From Street.	To Street.
Elm	Hemlock.....	Lake Erie Iron Co.
Edgewood Place.....	Esclid.....	Hough.
Esclid.....	Russell.....	Dunham.
East Chestnut.....	Perry.....	Oliver.
East Madison	Quincy.....	Sherman.
East Madison	Lagrange	Hough.
East Madison	Lexington	Linwood.
East Madison	Hough.....	Lawview.
East Prospect extension.....	Dean	Boulevard.
Eglindale Alley.....	Pearl	Seranton.
Engine House lot 16.....	On Orange street	
Fairchild	Fairmount.....	Stearns.
Fairmount.....	Esclid.....	Fairchild.
Foster.....	Dannison.....	Jennings.
Franklin.....	Waterson.....	Pennington.
Front.....	Water	Cuyahoga river.
Gharr.....	Seranton.....	C. O. C. & St. L. R. R.
Garfield	Warner Road	Waterbury.

TABLE No. 9—Continued.

Name of Street.	From Street.	To Street.
Giddings Brook.....	Woodland Hills	East Prospect.
Giddings Brook.....	Lake Erie	East Prospect.
Giddings Brook.....	Lake Erie	Woodland Hills.
Giddings.....	Lexington	Linwood.
Genesee.....	Stanley	S. line Southern Allotment.
Genesee.....	Superior	Wade Park.
Gordon	Clark	Storet.
Gale.....	Genesee.....	Marcy.
Girard.....	Carter	Scranton.
Government Breakwater	Location of East arm.....	
Groton.....	Union.....	Aetna.
Hough.....	Russell.....	Dunham.
Hough.....	Minerva.....	Crawford.
Hough.....	Legislide	E. Madison.
Hemlock.....	Elm.	Old River Bed.
Hunting	Independence	N. line of S. H. B. K. & S. Allotment.
Hamilton.....	E. line 10 A. lot 138.....	E. line 10 A. lot 138.
Hanover.....	Division.....	North.

TABLE No. 9—Continued.

Name of Street.	From Street.	To Street.
Humboldt	Orange.....	Woodland.
Hopgood.....	Dennison.....	O. L. line.
Ingleside	Lagrange.....	Hough.
Independence.....	Hunting	Athey.
Jennings.....	Dennison	Foster.
Jennings.....	Scranton.....	Viaduct.
Kinman	Esiga.....	1st angle southerly.
Kinkle.....	Scranton.....	Pearl.
Kirt.....	Lucerne.....	Hough.
Kingsbury Run sewer	Ackley avenue west.....	
Logan	Location of houses for East Prospect street extension.	
Lincoln.....	Quincy.....	Woodland.
Lagrange	Ingleside	East Madison.
Lake View	Benish	City limits.
Leonard	Columbus.....	Voltaire.
Leonard	Columbus.....	Case.
Lake.....	Dodge	Briggs.
Lake.....	Bend	Erie.

TABLE No. 9—Continued.

Name of Street.	From Street.	To Street.
Lake front.....	Cuyahoga River	Water.
Linwood.....	Giddings.....	East Madison.
Lexington	Giddings.....	East Madison.
Lindsey.....	Clark	C. C. C. & St. L. R. R.
Leyden	Clark.....	C. C. C. & St. L. R. R.
Lenox	Clark.....	C. C. C. & St. L. R. R.
Lawnview.....	East Madison	Giddings.
L. S. & M. S. R. R.....	Waverly.....	Bank.
Marvin.....	Scranton.....	Pearl.
Mayfield.....	N. line Anderson Allotment.....	Murray Hill Allotment.
Miles Park street.....	Broadway	Sawyer.
Marvy	Stanley.....	S. line Southern Allotment.
Marvy	Superior.....	Wade Park.
Marvy	Superior.....	Hough.
Martin.....	Extension to Praha.....	
Martin street bridge.....	Center line.....	
Mariner	Deering.....	Fairbld.
Minerva.....	Stanley.....	Hough.

TABLE NO. 9—Continued.

Name of Street.	From Street.	To Street.
Melrose.....	East Madison.....	Giddings.
Newport.....	Darlington.....	L. S. & M. S. R. R.
North Perry.....	Euclid.....	1st angle N. of Chestnut.
North.....	Pearl.....	Hanover.
N. Y. P. & O. R. R.....	Detroit.....	Viaduct.
Oakdale.....	Location of houses for East Prospect street extension.	
Oliver.....	East Chestnut.....	Euclid.
Old River.....	Waverly.....	St. Paul.
Old River.....	Waverly.....	Taylor.
Ohio Canal Com. line.....	No. 3 stone.....	No. 8 stone.
Orange.....	Odell.....	W. line 10 A lot 3.
Prim.....	Clark.....	Stock.
Pearl.....	Dennison.....	Big Creek.
Pearl.....	Division.....	North.
Pearl.....	Towbridge.....	Seranton.
Pier.....	Beaver.....	Woodland.
Pennington.....	Franklin.....	West Madison.
Quincy.....	Lincoln.....	E. line Nichols Allotment.

TABLE No. 9—Continued.

Name of Street.	From Street.	To Street.
Russell	Euclid	Hough.
Rhodes	Burton	N. line G. H. Taylor's Allotment.
Ross	St. Clair	Davenport.
Superior	Erie	Bond.
Streator	Location of houses for East Prospect street extension.	
Seranton	Clark	1st angle at Buhrer.
Seranton	Abbey	1st angle E. of Cliff.
Stone's Levee	Seneca	Canal.
Seneca	Stone's levee	Cuyahoga.
Seneca	St. Clair	Lake Erie.
Seneca	Champlain	Canal base line.
Sherman	East Madison	W. line T. & G. Allotment.
Stanley	Genesee	Marcy.
Summit	Bond	Erie.
Summit	Seneca	Erie.
Sagamore	Ingliside	East Madison.
Storer	Gauge	Gordon.
Stearns	Fairchild	Boulevard.

TABLE No. 9—Continued.

Name of Street.	From Street.	To Street.
Stock extension.....	Gordon.....	Westerly.
Stock extension.....	Prim.....	Alum.
Selker.....	Pearl.....	Wieland.
Tioga.....	Warner Road.....	Waterbury.
Tracy.....	Lorain.....	Mervin.
Voltaire.....	Leonard.....	Cuyahoga River.
Vincent.....	Erie.....	Bond.
Wade.....	Pearl.....	Rhodes.
Wade Park.....	Giddings.....	East Madison.
Waterbury.....	Tioga.....	Webb.
Waterbury.....	Tioga.....	Garfield.
Webb.....	Warner Road.....	Waterbury.
Waverly.....	Breakwater.....	L. S. & M. S. R. R.
Warner Road.....	Force.....	N. line Orchard Grove Allotment.
Warner Road.....	Broadway.....	Turney.
Willet.....	Bailey.....	Rhodes.
Willet.....	Bailey.....	Monroe.
Willow.....	Location of buildings.....	

TABLE No. 9—Continued.

Name of Street.	From Street.	To Street.
Wisland.....	Dennison.....	Selzer.
Weddell.....	Hermann.....	L. S. & M. S. R. R.
Willson.....	Ensign.....	N. line Ensign Allotment.
Willson.....	Armitage.....	Lake Erie.
Woodland.....	South Woodland.....	N. line Nichols Allotment.
Woodland.....	Ocean.....	Willcutt.
West River.....	Center.....	Viaduct.
Wilbur Court.....	Location of houses.....	
West Trenton (opening).....	Franklin.....	Dummy R. R.
West Trenton.....	Franklin.....	West Madison.
Whiskey Island.....	Location of dry docks and shore lines.....	
West Madison.....	Waterson.....	Pennington.
Waterson.....	Franklin.....	West Madison.
Winter.....	French.....	Columbus.

TABLE No. 9—Concluded.
CUYAHOGA RIVER SURVEYS.

Name of Street.	From Street.	To Street.
Base line re-surveyed.....	River Stone, 131 to 136 and 139 to 144.....	Lake Erie.
Dock line located.....	R. S. No. 1.....	Opp. Taylor street.
Dock line located.....	Old River Bed.....	R. S. No. 13.
Dock line located.....	R. S. No. 12.....	R. S. No. 22.
Dock line located.....	R. S. No. 20.....	R. S. No. 24.
Dock line located.....	R. S. No. 15.....	Girard.
Shore line located.....	Columbus.....	Erie R. R. Bridge.
Shore line located.....	Central Viaduct.....	
Shore line located..	North side of Old River Bed.....	

TABLE No. 10.
PLATS AND SUBDIVISIONS EXAMINED AND REPORTED UPON BY THE CHIEF ENGINEER
AND APPROVED BY THE COUNCIL IN 1898.

Name of Subdivisions and Description of Land Allotted.	Date of Approval.	For Record.	
		Date Filed.	Vol. Page.
Decker-Dinoeman allotment of part of original E. C. lot 342.....	January 10th.	January 11th.	24 14
Radway, Sands and Gilmour streets dedication in original Newburgh township lot 339.....	January 17th.	January 19th.	24 16
A. J. Marvin.—Re-subdivision of sublots in A. J. Marvin, J. H. Palmer's & F. R. Elliot's allotments.....	May 22nd.	September 1st.	25 1
Knight & Richardson.—Re-subdivision of part of A. Cosad's subdivision, Vol. 7, page 21.....	May 9th.	May 21st.	24 17
C. P. Rauney, trustee.—Re-subdivision of sublot 87-98 of L. Case subdivision of 10-acre lots 46 and 47.....	May 16th.	May 21st.	24 17
Thos. Sayle heirs.—Survey to correct error in T. H. Sayles' subdivision, Vol. 3, page 50.....	May 16th.	May 21st.	24 17
The Helen A. Smith allotment of part of original Brooklyn township lot 55.....	May 23rd.	May 26th.	24 21
Margaret T. Ranney allotment of part of original Brooklyn township lot 12.....	June 13th.	June 24th.	24 23
John & Anna Schott.—Re-subdivision of lots 20 and 55 in J. & A. Schott's subdivision, Vol. 22, page 22.....	June 13th.	June 18th.	24 18
J. S. Stevens.—Re-allotment of sublots 6 and 7 in Hayes' et al. subdivision, Vol. 13, page 1.....	June 13th.	June 21st.	24 16
New Park subdivision of part of original E. C. lot 334.....	June 20th.	August 4th.	24 26
Wm. Cowley.—Allotment of part of original Newburgh township lot 465.....	July 5th.	July 12th.	24 24
G. M. Spangler.—Subdivision of part of original E. C. township lots 342 and 339.....	July 18th.	August 2nd.	24 22
Corey avenue dedication in original E. C. township lots 342 and 381.....	August 1st.	.....	.....
Frank (Gib (guardian).—Subdivision of part of original Newburgh township lot 424.....	August 28th.	August 30 h.	24 19

TABLE NO. 10—Concluded.

Name of Subdivisions and Description of Land Allotted.	Date of Approval.	For Record.		
		Date Filed.	Vol.	Page.
G. P. Geib.—Subdivision of part of original E. C. lot 384.....	October 10th.	October 11th.	25	2
John G. Schafer.—Re-subdivision of part of sublots 1, 2, 3, 4 and 5 of Taylor's allot., Vol. 5, page 8.....	October 17th.	October 21st.	25	4
House & Cody.—Subdivision of part of original E. C. lots 888 and 889.....	October 24th.	October 25th.	25	5
L. M. Rone.—Subdivision of part of original Newburgh township lot 448.....	November 7th.	November 10th.	25	4
G. M. Gloyd.—Subdivision of part of O. L. 384, and sublots 1, 2, 3, 4, 5, 6 and 7 of J. Hoffman's subdiv.....	December 5th.	December 8th.	25	6
The Perry-Payne subdivision of part of 10-acre lots 82, 83 and 84.....	December 5th.	December 15th.	25	9
Julia Hachard heirs.—Subdivision of part of original Brooklyn township lots 55 and 56.....	December 19th.	.....	.....	.....
Markus Deunerie.—Re-subdivision of sublots 36-7-8 of D. Clark's subdiv. of part of orig. B. tp. lot 47.....	December 27th.	.....	.....	.....
Klaustermeyer & Henschen.—Allotment of part of original E. C. township lots 385 and 386.....	December 27th.	.....	.....	.....

TABLE No. II.
HOUSE NUMBERING MAPS MADE AND NUMBERS ASSIGNED DURING 1898.

Name of Street.	From Street.	To Street.	Length in Feet.	Number of Houses.
Gulfer	Esolid.....	Wilbur ..	1,118	21
Churchill	Doan	Parkwood.....	1,620	23
Eaton	Superior	Northerly end.....	555	19
Eastdale.....	Quincy.....	Northerly end.....	620	30
Eastlake.....	Adrian.....	Parkwood.....	1,173	7
Forestdale.....	Pearl.....	Ellis.....	2,008	64
Franklin	Tracy.....	N. Y. C. & St. L. R. R.	13,799	266
Halser	Quebec.....	Cedar.....	1,138	56
Thurman	Pelton.....	Starweather.....	2,780	69
Nine (9) Streets—Totals			24,821	555

Total number of miles..... 4.60 Total number of buildings on these streets 555
 Total of numbers assigned, being one for each 20 feet..... 2,490

TABLE No. 12.
STREETS CROSS-SECTIONED OR LEVELED; TAKEN DURING 1898.

Name of Street.	From Street.	To Street.	Cross-section, Length in Feet.	Level, Length in Feet.
Andale	Euclid	Crawford	1,878	360
Asylum Grounds.....	Grove.....	End of street	467	399
Amelia	Huron	Bolivar		523
Avon Alley.....	Starkweather.....	End of court.....		
Allman Court.....	Harford	Millford	415	
Bragdon	Mechanic.....	Brough.....	171	
Becker Alley.....	Seneca.....	Court Alley.....	200	
Broome Alley.....	Superior	Top of hill	1500	
Bank	Ridge.....	Bigelow.....		1,117
Brinsmade.....	Mayfield.....	Pearl		435
Brandon	Cedar.....	Central		1,475
Brenton	Baden.....	Easterly.....		260
Baden Court.....	Train.....	Clark.....		769
Bergen.....	Gordon.....	Browning		704
Bridge.....	Euclid	East Prospect.....		774
Billings.....				

TABLE NO. 12—Continued.

Name of Street.	From Street.	To Street.	Cross-section. Length in Feet.	Levels. Length in Feet.
Campbell	Union	Acton .....	.....	1,560
China	Siam	Chatham .....	.....	453
Cornelia	Hodge	Woolsey .....	.....	927
Clark	Walworth	Lennox .....	.....	576
Camden	Ridge	Bigelow .....	.....	1,186
Court Alley	Public Square	St. Clair	451	.....
Carter	Big Four Bridge	Erie railroad .....	.....	1,822
Canal	Dock line	Commercial .....	.....	451
Case Alley	Osborn	Kennard	981	.....
Deering	Fairmount	Boulevard	663	.....
Dorothy Place	Willson	Easterly .....	.....	200
Douse	550 feet south of Broadway	North end .....	.....	496
Diemer	St. Clair	Spilker .....	.....	704
Edgar	Diemer	E. Madison .....	.....	704
Eglindale	Soranton	East View .....	.....	912
Essex	Millford	Gauge	455	.....
Edgewood	Euclid	Hough	1,477	.....
Empress	Elmore	Barber	1,000	.....

TABLE No. 12—Continued.

Name of Street.	From Street.	To Street.	Cross-section. Length in Feet.	Level. Length in Feet.
Foster.....	Dennison	Bonney.....	535	1,335
Franklin Court.....	Franklin	Southerly.....	728	484
Flo.....	Fleet.....	Southerly.....		994
Fountain Alley.....	Seneca.....	Ontario.....		788
Fir	Gordon	Waverly		301
Finner	Valley.....	Hughes.....		730
Fenn	Quincy.....	C. & P. R. R.....		1,630
Fairview	Mayfield.....	Easterly.....		1,225
Francis	Willson.....	Tod		298
Franklin.....	Waterson.....	Pease Court		1,307
Foljambe	Outhwaite.....	Alley.....		1,484
Fairview	Murray Hill.....	Alley.....		1,228
Groton	Union.....	Aetna.....		767
Grace	Ridge	Gelb		
Gehring	Pearl.....	Lorain.....		
Graymont.....	Archwood	Dennison	708	
Grand	E. Madison	C. & P. R. R.....	1,029	
Grand.....	E. Madison	Herd	879	

TABLE No. 12—Continued.

Name of Street.	From Street.	To Street.	Cross-section. Length in Feet.	Levels. Length in Feet.
Holton.....	Woodland Hills	C. & P. R.	2,482	.....
Hamilton	Wood	Erie	1,073	.....
Hoppenseck	Tod	Justin	510	.....
Hakey	Cedar	Quebec	1,786	.....
Hope	Higgins	Ridge .....	.....	1,089
Hurlburt	Payne	Perkins .....	.....	977
Hillman	Broadway	Tod .....	.....	1,123
Higgins	Clark	Lorain .....	.....	1,450
Independence	Fleet	Southerly .....	.....	1,250
Ingersoll Road	Woodland Hills	Easterly	850	.....
Junction	Walworth	Train .....	.....	498
Jersey	Bridge	Fulton .....	.....	408
Korman	Woolsey	Ansel .....	.....	1,165
Kershaw	Fleet	Southerly .....	.....	950
Kennedy	Woodland Hills	Westerly	346	.....
Logan Place	Logan	Easterly	319	.....
Luciel	Euclid	Mayfield	991	.....
Lederer	Tod	Almond	421	.....

TABLE No. 12—Continued.

Name of Street.	From Street.	To Street.	Cross-section. Length in Feet.	Level. Length in Feet.
Lake ave	Detroit.....	Mecca.....	2,100	760
Libbie	Clark.....	Brinsmade.....		933
Miles Park.....	Broadway	Woodland Hills.....		1,203
Malcolm	Detroit	West Madison.....		
Montgomery	Giddings	Parker.....	629	
Myrtle Court.....	Sawtell.....	Easterly	730	
Miles Park.....	Broadway	Woodland Hills.....	663	
Miles Park.....	Broadway	Bottom of bank.....	236	
Melrose.....	Giddings	East Madison.....	1,140	
Newark.....	Burton.....	Selden		760
Orange.....	Forest	Humboldt.....		886
Oakdale	Quincy	Woodland		1,817
Ottawa	Marcelline.....	Jones		1,586
Orleans	Woodland Hills	Easterly	1,700	
Olive Alley	Olive Court.....	Curtis.....	280	
Oliver.....	St. Clair.....	Esclid.....	2,520	
Pennington	Franklin.....	West Madison	943	
Pollock	Clark.....	End of street.....	1,300	

TABLE No. 12—Continued.

Name of Street.	From Street.	To Street.	Cross-section. Length in Feet.	Level. Length in Feet.
Palm.....	Bailey	Fraser	1,088	.....
Philetus	Tod	Almond.	424	.....
Prospect.....	Erie	Brownell	1,312	.....
Pratt.....	Woodland Hills.....	Easterly .....	.....	1,197
Pleasant.....	Clark.....	Southerly.....	.....	1,160
Pearl Court.....	Pearl.....	Easterly .....	.....	280
Quinby Place.....	Quinby	End of Place.....	212	.....
Rogers.....	Tod	Justin	510	.....
Shipherd	Wade Park.....	Superior	1,787	.....
Storer.....	Rhodes	Easterly	1,162	.....
Sheppard	Ware.....	End of street	297	.....
Seneca	Superior.....	'St. Clair	617	.....
Seneca	St. Clair.....	Northerly.....	.....	617
Seneca	Superior.....	Summit.....	617	.....
Stone's Levee.....	Ohio.....	Dock line.....	.....	225
Spilker	Diemer	East Madison .....	.....	305
Svoboda	Forest	Southerly.....	.....	727

TABLE No. 12—Continued.

Name of Street.	From Street.	To Street	Cross-section. Length in Feet.	Levels. Length in Feet.
Shaw.....	Ridge.....	Easterly end.....		450
Stoneman.....	Kinsman	Southerly.....		1,000
Simon.....	Woolsey.....	Ansel.....		988
Thurman.....	College.....	Literary.....		465
Tod.....	Francis.....	Union.....		5,532
Tod.....	Kenyon.....	Fullerton.....		2,170
Titus.....	Soranton.....	East View.....		645
Trent.....	Gauge.....	Selden.....	264	
Trumbull Alley.....	Trumbull.....	Warren.....	304	
Tyler.....	Daisy.....	Woodbridge	620	
Tennyson.....	Woodland.....	Erarta.....	855	
Valley.....	Harvard.....	Finney.....		736
Waterson.....	Detroit.....	West Madison.....		1,913
West Boy.....	Detroit.....	Franklin.....		714
Woodbridge.....	Rhodes.....	Burton.....		496
West Clinton.....	Waterson.....	Gordon.....		1,557
Warden.....	Pearl.....	Easterly.....		557

TABLE NO. 12—Concluded.

Name of Street.	From Street.	To Street.	Cross-section. Length in Feet.	Level. Length in Feet.
Willet St. Viaduct.....	Monroe.....	Vega.....	1,130	
Wagner.....	Herald.....	Grand.....	873	
Willet St. Viaduct.....	Monroe.....	Southerly.....	367	
Wade Park.....	Marcy.....	Easterly.....	1,836	
Wood.....	St. Clair.....	Summit.....	973	
Wren.....	Tod.....	Amelia.....	332	
York.....	Monroe.....	Mill.....	675	
Totals.....		.	41,080— 7.3 miles.	68,504— 13 miles.

TABLE NO. 13.
GRADES ESTABLISHED IN 1898.

Name of Street.	From Street.	To Street.	Length in Feet.	When Established.
Andale	Eucild	Crawford	1,378	September 26th.
Churchill	Doan	Parkwood	1,623	March 7th.
Classen	Marcelline	Hanlon	1,495	May 2nd.
Chester	Beaver	Southerly	197	May 31st.
Cleveland Court	Loran	Bureka Lane	790	June 20th.
Cable	Broadway	Adolph	1,567	August 28th.
Casa Alley	Obern	Kennard	961	October 24th.
Denver Place	Lufkin	Drake	894	October 24th.
Devine	Belley	Southerly end	400	September 6th.
Edgewood Place	Eucild	Northerly	1,012	May 16th.
Frontier	Gilbert	Prim	745	May 16th.
Fullerton	Broadway	Skinner	790	March 28th.
Graymont	Archwood	Dennison	788	October 31st.
Haven	Superior	Northerly	596	January 10th.
Halsey	Wain Alley	Quebec	1,182	January 3rd.
Hoerner	Skinner	Marcelline	2,978	March 28th.

TABLE No. 13—Concluded.

Name of Street.	From Street.	To Street.	Length in Feet.	When Established.
Hodge.....	Superior.....	St. Clair.....	3,345	November 2nd.
Ingersoll Road	Woodland Hills. .	City limits.....	567	October 24th.
Logan Place	Logan.....	Easterly end.....	319	August 22nd.
Pennington	Franklin.....	West Madison.....	944	October 24th.
President	Storer.....	Dennison.....	1,632	May 16th.
Reade	Harvard	Southerly.....	1,348	May 2nd.
Republic Place.....	Republic	Westerly.....	338	July 11th.
Sandusky	Woodland Hills.....	City limits.....	1,640	March 28th.
Sanford	Woodland	Southerly.....	910	May 31st.
Stone's Laves	Ohio	Southerly.....	200	July 11th.
Shipherd.....	Wade Park.....	Superior.....	1,787	October 24th.
Sheppard	Ware.....	Westerly.....	297	November 2nd.
Third.....	Skinner.....	Marcelline.....	2,978	March 28th.
Wilmar.....	Whitney	Superior.....	620	August 22nd.
Total, 30 streets.....			27,741— 6.28 miles.	

TABLE NO. 14.
STREETS AND ALLEYS DEDICATED BY NEW SUBDIVISIONS IN 1898, AND GRADED OR OTHERWISE IMPROVED, OR IMPROVEMENT GUARANTEED BY THE PROPRIETORS.

Name of Street.	From	To	Name of Allotment.	Length in Feet.
Radway	Easter street	Southerly	Radway, Sand & Gilmour sts., dedication	1,214
Sand	Warwick street	Radway street	Radway, Sand & Gilmour sts., dedication	105
Gilmour	Radway street	Westerly city limits	Radway, Sand & Gilmour sts., dedication	100
Woodbridge	Gauge street	Rhodes avenue	Helen A. Smyth	1,284
Alley	Between Gauge and Burton	North of Woodbridge	Helen A. Smyth	790
Alley	Between Gauge and Burton	South of Woodbridge	Helen A. Smyth	870
Alley	7 feet east of N. W. corner lot 53 ..	60.18 E. of N. W. corner lot 60	Helen A. Smyth	308
Cowley	Miles avenue	S. line of lot 18	Wm. Cowley	541
Ann	Ansel avenue	E. line Breckenridge sub.	The New Park subdivision	286
Nansen	Superior street	Ann street	The New Park subdivision	277
Alley	Nansen street	Ansel avenue	The New Park subdivision	390
Sagamore	Ingleaside avenue	East Madison avenue	Geo. M. Spangler	720
Leroy	S. L. of Vantine's subdivision	Southerly	G. P. Geib's subdivision	349
Auburndale	Easterly city limits	Archer	House & Cody's subdivision	379
Dorothy Place	Willson avenue	Easterly end of subdivision	J. S. Stevens re-allotment	200

TABLE No. 14—Concluded.

Name of Street.	From	To	Name of Allotment.	Length in Feet.
Ridgewood	Euclid avenue.....	Waide Park avenue.....	Klaustermeyer & Henschen.....	1,667
Minnesota	East Chestnut street.....	Payne avenue	The Perry-Payne subdivision.....	933
Alley	East Chestnut street.....	143.90 feet east of Minnesota.....	The Perry-Payne subdivision.....	1,264
Alley	East Chestnut street.....	738.33 feet northerly to alley.....	The Perry-Payne subdivision.....	738
Alley	S. L. subplot 36 Clark sub.....	N. L. subplot 36 Clark sub.....	Dennerle re-subdivision	397
Alley	Hamburg street.....	Gilbert street.....	Dennerle re-subdivision	290
Corvey	East Madison avenue.....	261.25 feet W. of Genesee ave.....	Dedication of Corvey avenue.....	882
Gloyd.....	Superior street	Ansel avenue	Geo. M. Gloyd.	1,015

15 streets, 8 alleys. Total length in feet 14,967—2.76 miles.

TABLE No. 15.
MONUMENTS SET OR RESET FROM SURVEYS IN 1898.

Name of Street.	Place.	At Intersection.	Place.
Bolton.....	Centre.....	Hamilton & Wyman allotment.....	N. L.....
Cobleigh.....	C.....	Willson.....	E. L.....
Cobleigh.....	C.....	Easterly end of street.....	.....
Commonwealth.....	C.....	Stanley avenue.....	S. L.....
Commonwealth.....	C.....	First angle south of Stanley avenue.....	.....
Commonwealth.....	C.....	Second angle south of Stanley avenue.....	.....
Dennison.....	C.....	Hopgood.....	C.....
Edgewood Place.....	C.....	Cody allotment.....	S. L.....
Edgewood Place.....	13.5 ft. E. of C.....	Cody allotment.....	S. L.....
Edgewood Place.....	C.....	Cody allotment.....	N. L.....
Edgewood.....	W. L.....	Alley.....	C.....
Eglindale Alley.....	C.....	Pearl street.....	E. L.....
Eglindale Alley.....	C.....	Angle.....	.....
Elm.....	C.....	Old River street.....	C.....
Ensign.....	C.....	Willson avenue.....	E. L.....

TABLE No. 15—Continued.

Name of Street.	Place.	At Intersection.	Place.
Ensign	Centre	Kinsman street.....	W. L.
Ensign	C	Angle W. of Kinsman .....	.....
Foster	C	First angle S. of Dennison avenue.....	.....
Girard	C	Carter street	C
Girard	C	Scranton.....	1 ft. E. of E. L.
Halsey	C	Lot line S. of Cedar avenue.....	.....
Kinkel	C	Scranton avenue	W. L.
Library	C	Delmar street.....	E. L.
Lincoln.....	C	Quincy street.....	S. L.
Minerva.....	C	Stanley avenue.....	S. L.
Minerva.....	C	Angle S. of Stanley avenue.....	.....
Newport	C	L. S. & M. S. R. R.....	S. L.
Ohio Canal Commission Stone No. 6.....	.....	.....	.....
Ohio Canal Commission Stone No. 7.....	.....	.....	.....
Olivet.....	C	Lot line N. of Euclid avenue.....	.....
Pearl	C	Bradwell street.....	C
Pearl	C	City limits.....	.....

TABLE NO. 15—Concluded.

Name of Street.	Place.	At Intersection.	Place.
Rhodes	Centre	Dennison avenue.....	C
River Survey Stone No. 24.....			
Seranton	C	Cliff street	C
Woolley.....	E. L.....	Medina street.....	C

Number of monuments referenced.....	432
"	190
" reset from reference.....	2
" raised or lowered.....	2
" tested.....	57
" reset from survey.....	36
" location changed.....	2
Total.....	719

TABLE No. 12—Continued.

Name of Street.	From Street.	To Street.	Cross-section. Length in Feet.	Level. Length in Feet.
Palm.....	Bailey	Freese	1,086	.....
Philetus	Tod	Almond.	424	.....
Prospect.....	Erie	Brownell	1,312	.....
Pratt.....	Woodland Hills.....	Easterly .....	.....	1,197
Pleasant.....	Clark.....	Southerly .....	.....	1,160
Pearl Court.....	Pearl.....	Easterly .....	.....	230
Quincy Place.....	Quincy	End of Place.....	212	.....
Rogers.....	Tod	Justin	510	.....
Shipard	Wade Park.....	Superior	1,787	.....
Storer.....	Rhodes	Easterly	1,162	.....
Sheppard	Ware.....	End of street.....	297	.....
Seneca. . .	Superior	St. Clair	617	.....
Seneca	St. Clair.....	Northerly.....	.....	617
Seneca	Superior.....	Summit.....	617	.....
Stone's Levee.....	Ohio.....	Dock line.....	.....	225
Spitzer	Diemer	East Madison .....	.....	385
Sroboda	Forest	Southerly.....	.....	727

TABLE No. 12—Continued.

Name of Street.	From Street.	To Street	Cross-section. Length in Feet.	Level. Length in Feet.
Shaw.....	Ridge.....	Easterly end.....	.....	450
Stoneman.....	Kinsman.....	Southerly.....	.....	1,000
Simon.....	Woolsey.....	Ansel.....	.....	988
Thurman.....	College.....	Literary.....	.....	465
Tod.....	Francis.....	Union.....	.....	5,532
Tod.....	Kenyon.....	Fullerton.....	.....	2,170
Titus.....	Scranton.....	East View.....	.....	645
Trent.....	Gauge.....	Selden.....	264	.....
Trumbull Alley.....	Trumbull.....	Warren.....	304	.....
Tyler.....	Daisy.....	Woodbridge.....	620	.....
Tennison.....	Woodland.....	Evarts.....	855	.....
Valley.....	Harvard.....	Finney.....	.....	736
Watterson.....	Detroit.....	West Madison.....	.....	1,913
West Boy.....	Detroit.....	Franklin.....	.....	714
Woodbridge.....	Rhodes.....	Burton.....	.....	495
West Clinton.....	Watterson.....	Gordon.....	.....	1,557
Warden.....	Pearl.....	Easterly.....	.....	567

TABLE NO. 12—Concluded.

Name of Street.	From Street.	To Street.	Cross-section. Length in feet.	Level. Length in feet.
Willet St. Viaduct.....	Monroe.....	Vega.....	1,130	.....
Wagner.....	Herald.....	Grand.....	873	.....
Willet St. Viaduct.....	Monroe.....	Southerly.....	387	.....
Wade Park.....	Marcy.....	Easterly.....	1,436	.....
Wood.....	St. Clair.....	Summit.....	973	.....
Wren.....	Tod.....	Amelia.....	332	.....
York.....	Monroe.....	Mill.....	676	.....
Totals.....	.....	.....	41,000— 7.8 miles.	68,504— 13 miles.

TABLE No. 13.
GRADES ESTABLISHED IN 1898.

Name of Street.	From Street.	To Street.	Length in Feet.	When Established.
Andale	Euclid	Orawford	1,878	September 28th.
Churchill	Doan	Parkwood	1,623	March 7th.
Clasas	Marcelline	Hanlon	1,465	May 2nd.
Chester	Beaver	Southerly	197	May 31st.
Cleveland Court	Lorain	Eureka Lane	790	June 20th.
Cable	Broadway	Adolph	1,587	August 29th.
Casa Alley	Osborn	Kennard	981	October 24th.
Denver Place	Lufkin	Drake	894	October 24th.
Devine	Bailey	Southerly end	400	September 6th.
Edgewood Place	Euclid	Northerly	1,012	May 16th.
Frontier	Gilbert	Prim	745	May 16th.
Fullerton	Broadway	Skinner	790	March 28th.
Graymont	Archwood	Dennison	708	October 31st.
Haven	Superior	Northerly	596	January 10th.
Haley	Wain Alley	Quebec	1,182	January 3rd.
Homer	Skinner	Marcelline	2,978	March 28th.

TABLE No. 13—Concluded.

Name of Street.	From Street.	To Street.	Length in Feet.	When Established.
Hodge.....	Superior.....	St. Clair.....	8,945	November 2nd.
Ingersoll Road	Woodland Hills.	City limits.....	567	October 24th.
Logan Place	Logan.....	Easterly end.....	319	August 22nd.
Pennington	Franklin.....	West Madison.....	944	October 24th.
President	Storer.....	Dennison.....	1,652	May 16th.
Reade	Harvard	Southerly.....	1,848	May 2nd.
Republic Place.....	Republic	Westerly.....	358	July 11th.
Sandusky	Woodland Hills.....	City limits.....	1,640	March 28th.
Sanford	Woodland	Southerly.....	910	May 31st.
Stone's Lavee	Ohio	Southerly.....	200	July 11th.
Shipherd.....	Wade Park.....	Superior.....	1,787	October 24th.
Sheppard	Ware.....	Westerly.....	297	November 2nd.
Third	Skinner.....	Marcelline.....	2,978	March 28th.
Wilmar.....	Whitney.....	Superior.....	620	August 22nd.
Total, 30 streets.....			27,741— 5.26 miles.	

TABLE No. 14.
STREETS AND ALLEYS DEDICATED BY NEW SUBDIVISIONS IN 1898, AND GRADED OR OTHERWISE IMPROVED, OR IMPROVEMENT GUARANTEED BY THE PROPRIETORS.

Name of Street.	From	To	Name of Allotment.	Length in Feet.
Radway	Easter street	Southerly	Radway, Sand & Gilmour sts., dedication	1,214
Sand	Warwick street	Radway street	Radway, Sand & Gilmour sts., dedication	105
Gilmour	Radway street	Westerly city limits	Radway, Sand & Gilmour sts., dedication	100
Woodbridge	Gauge street	Rhodes avenue	Helen A. Smyth	1,284
Alley	Between Gauge and Burton	North of Woodbridge	Helen A. Smyth	790
Alley	Between Gauge and Burton	South of Woodbridge	Helen A. Smyth	870
Alley	7 feet east of N. W. corner lot 53 ..	60.18 E. of N. W. corner lot 60	Helen A. Smyth	306
Cowley	Miles avenue	S. line of lot 18	Wm. Cowley	541
Ann	Ansel avenue	E. line Breckenridge sub.	The New Park subdivision	286
Nansen	Superior street	Ann street	The New Park subdivision	277
Alley	Nansen street	Ansel avenue	The New Park subdivision	380
Sagamore	Ingleisle avenue	East Madison avenue	Geo. M. Spangler	720
Leroy	S. L. of Vantine's subdivision	Southerly	G. P. Geib's subdivision	349
Auburdale	Easterly city limits	Archer	House & Cody's subdivision	379
Dorothy Place	Willson avenue	Easterly end of subdivision	J. S. Stevens re-allotment	200

TABLE No. 14—Concluded.

Name of Street.	From	To	Name of Allotment.	Length in Feet.
Ridgewood	Euclid avenue.....	Wade Park avenue.....	Klaustermeyer & Henschen.....	1,667
Minnesota	East Chestnut street	Payne avenue	The Perry-Payne subdivision.....	983
Alley	East Chestnut street.....	143.90 feet east of Minnesota.....	The Perry-Payne subdivision.....	1,264
Alley	East Chestnut street.....	738.33 feet northerly to alley.....	The Perry-Payne subdivision.....	738
Alley	S. L. subplot 38 Clark sub.....	N. L. subplot 38 Clark sub.....	Dennerie re-subdivision	337
Alley	Hamburg street.....	Gilbert street.....	Dennerie re-subdivision	290
Corey	East Madison avenue.....	251.25 feet W. of Genesee ave.....	Dedication of Corey avenue.....	882
Gloyd	Superior street	Ansel avenue	Geo. M. Gloyd	1,015

15 streets, 8 alleys. Total length in feet 14,967—2.76 miles.

TABLE No. 15.
MONUMENTS SET OR RESET FROM SURVEYS IN 1898.

Name of Street.	Place.	At Intersection.	Place.
Bolton.....	Centre.....	Hamilton & Wymen allotment.....	N. L.....
Cobleigh.....	C.....	Willson.....	E. L.....
Cobleigh.....	C.....	Easterly end of street.....	S. L.....
Commonwealth.....	C.....	Stanley avenue.....	S. L.....
Commonwealth.....	C.....	First angle south of Stanley avenue.....	
Commonwealth.....	C.....	Second angle south of Stanley avenue.....	
Dennison.....	C.....	Hopgood.....	C.....
Edgewood Place.....	C.....	Cody allotment.....	S. L.....
Edgewood Place.....	13.5 ft. E. of C.....	Cody allotment.....	S. L.....
Edgewood Place.....	C.....	Cody allotment.....	N. L.....
Edgewood.....	W. L.....	Alley.....	C.....
Eglindale Alley.....	C.....	Pearl street.....	E. L.....
Eglindale Alley.....	C.....	Angle.....	
Elm.....	C.....	Old River street.....	C.....
Ensign.....	C.....	Willson avenue.....	E. L.....

TABLE No. 15—Continued.

Name of Street.	Place.	At Intersection.	Place.
Ensign	Centre	Kinsman street.....	W. L.
Ensign	C	Angle W. of Kinsman.....	.....
Foster	C	First angle S. of Dennison avenue.....	.....
Girard	C	Carter street	C
Girard	C	Soranton.....	1 ft. E. of E. L.
Halley	C	Lot line S. of Cedar avenue.....	.....
Kinkel	C	Soranton avenue	W. L.
Library	C	Delmar street.....	E. L.
Lincoln	C	Quincy street.....	S. L.
Minerva	C	Stanley avenue.....	S. L.
Minerva	C	Angle S. of Stanley avenue.....	.....
Newport	C	L. S. & M. S. R. R.....	S. L.
Ohio Canal Commission Stone No. 6.....	.....	.....	.....
Ohio Canal Commission Stone No. 7.....	.....	.....	.....
Oliver.....	C	Lot line N. of Euclid avenue.....	.....
Pearl.....	C	Bradwell street.....	C
Pearl	C	City limits.....	.....

TABLE NO. 15—Concluded.

Name of Street.	Place.	At Intersection.	Place.
Rhodes	Centre	Dennison avenue.....	C
River Survey Stone No. 24.....	C	Cliff street	C
Seranton	E. L.....	Medina street.....	C
Woolsey.....			

Number of monuments referenced.....	432
"	190
" reset from reference.....	2
" raised or lowered.....	57
" tested.....	36
" reset from survey.....	2
" location changed.....	719
Total.....	

TABLE No. 16.
NOTICES SERVED DURING THE YEAR FOR CONSTRUCTING HOUSE SEWER AND WATER
CONNECTIONS TO CURB LINE IN ADVANCE OF PAVING.

Name of Street.	From Street.	To Street.	Length.	Notices served specifying total No. of connections required.		Number of connections previously put in.		Additional connections put in by property owners.		Delinquent connections put in by the city.	
				Sewer.	Water.	Sewer.	Water.	Sewer.	Water.	Sewer.	Water.
Alabama	L. S. & M. S. Ry.	St. Clair.....	1,257	28	28	27	27	.....	.....	1	1
Amesbury	Hough.....	367 ft. southerly ..	367	14	14	9	9	5	5	.....	.....
Bank	Superior	285 ft. N. of Lake.	1,728	84	84	75	88	9	1	.....	.....
Bolton	Quincy.....	Woodland	1,836	77	77	67	68	.....	.....	10	9
Bell	Cedar.....	Southerly	1,670	100	100	91	88	7	9	2	3
Billings	Esclid	E. Prospect	780	25	25	.....	.....	25	25	.....	.....
Cook	Burton	Harbor	776	40	40	25	33	15	7	.....	.....
Clark	Jennings	Merchants	579	25	25	14	14	.....	.....	11	11
Cobleigh	Willson	Easterly	351	15	15	9	10	4	3	2	2
Cemetery	Woodland	Quincy	1,872	27	27	24	24	3	3	.....	.....
Churchill	Doan	Parkwood	1,621	85	85	9	9	76	76	.....	.....
Duane	Woodbine	Franklin	852	25	25	18	8	7	17	.....	.....
Dunham	Waide Park	Hough	2,651	132	132	56	58	46	45	30	30

TABLE NO. 16—Continued.

Name of Street.	From Street.	To Street.	Length.	Notices served specifying total No. of connections of connections required.		Number of connections previously put in.		Additional connections put in by property owners.		Delinquent connections put in by the city.	
				Sewer.	Water.	Sewer.	Water.	Sewer.	Water.	Sewer.	Water.
Davis	Lorain	Willard	747	35	35	27	27	8	8	5	4
E. Madison	Woodland	Holton	4,042	78	76	55	53	18	14	3	2
Ensign	Willson	Kinsman	820	39	39	33	33	3	4	2	1
Fairfield	Jennings	Pelton	1,018	42	42	29	30	11	11	2	2
Fountain	Seneca	Ontario	462	22	22	5	10	14	10	3	2
Gladstone ..	Sawtell	Westerly	848	43	43	36	36	2	2	5	5
Holmden	Pearl	Jennings	2,360	122	122	87	93	30	21	5	8
Harbor	Lorain	Ravine	2,022	102	102	69	81	31	20	2	1
Hamilton	Erie	Wood	924	1	1	.....	1	.....	.....	1	.....
Jersey	Fulton	Monroe	2,221	77	77	53	58	20	18	4	1
Kenilworth ..	Jennings	Pelton	988	36	36	25	17	9	16	2	2
Lincoln	Quincy	Woodland	1,820	84	82	67	73	12	5	5	4
Literary	Herschel	Merchants	1,846	73	73	31	43	36	26	6	4
Lane	Canal	Commercial	332	7	7	.....	1	3	2	4	4

TABLE No. 16—Continued.

Name of Street.	From Street.	To Street.	Length.	Notices served specifying total No. of connections required.		Number of connections previously put in.		Additional connections put in by property owners.		Delinquent connections put in by the city.	
				Sewer.	Water.	Sewer.	Water.	Sewer.	Water.	Sewer.	Water.
Monroe.....	Pearl.....	Willett.....	2,436	95	95	66	71	28	24	1	.....
Molean.....	Lorain.....	Monroe.....	1,130	53	53	33	36	18	16	2	1
Minerva.....	Hough.....	Northerly.....	658	40	40	31	29	3	3	6	8
Mandrake.....	Water.....	208 ft. westerly.....	208	7	7	3	5	4	2	.....	.....
Murray Hill.....	Mayfield.....	Adelbert.....	3,013	1	1	.....	.....	.....	.....	1	1
Oliver.....	Superior.....	Euclid.....	2,444	82	82	.....	.....	79	79	3	3
Ontario.....	Factory.....	Central.....	365	21	21	19	20	2	1	.....	.....
Orange.....	Humboldt.....	Case.....	1,770	6	6	.....	.....	6	6	.....	.....
Penn.....	Bridge.....	Monroe.....	1,807	61	61	45	49	15	11	1	1
Plymouth.....	Cedar.....	Central.....	1,449	90	90	87	86	3	4	.....	.....
Republic.....	Lamont.....	Euclid.....	1,776	98	98	80	80	17	17	1	1
Putnam.....	Central.....	Soovill.....	1,223	64	64	59	60	5	3	.....	1
Ridge.....	Lorain.....	Dennison.....	3,869	103	103	68	99	50	24	50	40
Race.....	Ontario.....	Westerly.....	388	22	22	13	20	9	2	.....	.....

TABLE No. 16—Concluded.

Name of Street.	From Street.	To Street.	Length.	Notices served specifying total No. of connections required.		Number of connections previously put in.		Additional connections put in by property owners.		Delinquent connections put in by the city.	
				Sewer.	Water.	Sewer.	Water.	Sewer.	Water.	Sewer.	Water.
Seneca	Superior	St. Clair.....	816	25	25	18	25	7			
Streator	Cedar.....	Quebec	1,774	102	102	69	81	28	18	5	3
Soranton.....	Clark.....	Pearl	4,873	206	206	76	102	125	100	5	4
Woodbridge.....	Pearl	Rhodes	2,653	144	144	58	102	84	39	2	3
Wade Park.....	Norwood.....	Boulevard.....	7,850	290	290	238	229	46	53	6	8
West Clinton.....	Waverly.....	Gordon	1,044	58	58	43	40	11	14	4	4
Wood.....	St. Clair.....	Summit	973	31	31	8	25	20	5	3	1
Woodland.....	Eagle.....	Central.....	505	22	22			22	22		
Willson.....	Julia.....	Bower	583	16	16	2	3	11	10	3	6
Total			80,358	3,135	3,131	1,952	2,176	987	779	196	176

TABLE NO. 17.
HOUSE CONNECTIONS CONSTRUCTED, REPAIRED OR CLEANED.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Laid in unpaved streets.....	67	54	440	304	313	186	233	206	218	210	165	55	2,451
Laid in paved streets.....	1	1	11	12	7	5	2	8	13	13	10	6	89
Extended from curb line.....	21	12	34	35	44	35	34	40	45	31	32	27	380
Repaired in paved streets.....	.....	1	3	3	.....	1	1	3	.....	.....	1	1	14
Repaired in unpaved streets.....	3	1	1	1	5	4	2	1	5	3	2	1	29
Repaired inside of curb line.....	9	3	13	15	15	17	8	14	13	16	11	8	142
Total for each month.....	101	72	502	370	384	248	280	272	294	273	221	98	3,115

TABLE No. 18.

**COST OF LIGHTING, CARE AND MAINTENANCE OF
PUBLIC STREET LAMPS FOR THE YEAR 1898.**

THE CLEVELAND GAS LIGHT & COKE COMPANY.		
(East Side.)		
Gas furnished public street lamps.....	\$ 44,487 02	
Repairs and new work.....	787 60	
Gas furnished City Hall.....	374 88	
Gas furnished Superior Street viaduct.....	13 52	
Lighting, extinguishing and care of lamps.....	1,709 18	
		\$ 47,372 20
THE PEOPLE'S GAS LIGHT CO.		
(West Side.)		
Gas furnished public street lamps.....	\$ 21,814 62	
Repairs and new work.....	506 46	
Gas furnished Superior Street viaduct.....	9 28	
Lighting, extinguishing and care of lamps.....	856 74	
		23,187 10
JOHN O'NEIL,		
Contractor for Lighting and Care of Gas Lamps.		
Lighting and care of lamps, east side (3,453).....	\$ 11,156 43	
Lighting and care of lamps, west side (1,692).....	5,530 35	
Total.....	\$ 16,686 78	
Lamps out.....	99 24	
		16,587 54
SUN VAPOR STREET LIGHT CO.		
(First one-half year.)		
Lighting vapor street lamps.....	\$ 31,213 92	
Setting and re-setting lamp posts.....	76 75	
		31,292 67
THE GLOBE LIGHT & HEAT CO.		
(Second one-half year.)		
Lighting Welsbach vapor street lamps.....	\$ 30,184 86	
		30,184 86

TABLE No. 18—Continued.

THE CLEVELAND ELECTRICAL ILLUMINATING CO.		
Lighting arc street lamps (average 670).....	\$ 81,112 44	
Lighting incandescent lamps (City Hall), 600.....	2,880 00	
		\$ 83,992 44
THE PATTERSON FOUNDRY CO.		
Lamp posts, thirteen, at \$4.05	\$ 63 05	
Salary of Gas Inspector		63 05
		1,000 00
Total		\$ 233,776 41

TABLE No. 18—Concluded.

SUMMARY.

Total cost of gas furnished street lamps	\$ 66,301 64
Total cost of lighting, extinguishing and care of lamps.....	19,155 96
Total cost of lighting vapor lamps.....	61,477 53
Total cost of lighting electric arc lamps	81,112 44
Total cost of repairs and new work.....	1,372 81
Total cost of lamp posts	63 05
Total cost of lighting City Hall building	3,254 88
Total cost of lighting Superior Street viaduct with gas.....	22 80
Total cost of burners and tips.	15 30
Salary of Gas Inspector	1,000 00
Total	\$ 238,776 41

TABLE No. 19.

SUMMARY

Showing the Total Number of Lamps Lighted, the Average Number of Lamps Burning, New Lamps Lighted, Old Lamps Re-Lighted, and Lamps Discontinued by Each of the Lighting Companies During the Year 1898.

THE CLEVELAND GAS LIGHT & COKE CO.			
Number of lamps lighted December 31, 1897.....	3,504		
Number of new lamps lighted during the year.....	3		
Number of old lamps re-lighted during the year.....	11		
		3,518	
Number of lamps changed during the year to Welsbach.....	32		
Number of lamps changed during the year to electric.....	63		
Number of lamps discontinued permanently.....	11		
		106	
Number of lamps lighted December 31, 1898.....			3,412
Average number of lamps lighted during the year.....			3,453
THE PEOPLE'S GAS LIGHT CO.			
Number of lamps lighted December 31, 1897.....	1,745		
Number of new lamps lighted during the year.....	17		
Number of old lamps re-lighted during the year.....	3		
Number of lamps changed during the year from vapor.....	10		
		1,775	
Number of lamps changed during the year to electric.....	25		
Number of lamps discontinued permanently.....	37		
Number of lamps changed during the year to vapor.....	30		
		92	
Number of lamps lighted December 31, 1898.....			1,683
Average number of lamps lighted during the year.....			1,692

TABLE No. 19—Continued.

THE SUN VAPOR STREET LIGHT CO.			
(Vapor Lighting.)			
Number of lamps lighted December 31, 1897.....	4,460	4,460	
Number of lamps discontinued for electricity to July 31, 1898.....	20		
Number of lamps discontinued for gas to July 31, 1898.....	2		
		22	
Number of lamps lighted July 31, 1898			4,438
July 14, 1898, the transfer of the old vapor lamps to the Welsbach form was commenced, and concluded July 30, 1898, the Welsbach contractors being			
THE GLOBE LIGHT & HEAT CO.			
Number of vapor (Welsbach) lamps installed to July 30, 1898			2,146
Number of vapor (Welsbach) lamps installed to December 31, 1898.....			1
			2,147
Number of vapor (Welsbach) lamps discontinued for gas.....			6
Number of vapor (Welsbach) lamps lighted Dec. 31, 1898 ...			2,141
THE CLEVELAND ELECTRICAL ILLUMINATING CO.			
Number of 2,000 C. P. arc lamps lighted December 31, 1897.....		866	
Number of new 2,000 C. P. arc lamps lighted during the year 1898.....		23	
Total			879

TOTAL NUMBER OF LAMPS BURNING DECEMBER 31, 1898.

Gas	5,088
Vapor	2,141
Electric.....	879
Grand total.....	8,118

TABLE No. 19—Concluded.

RECAPITULATION.

Number of gas lamps lighted December 31, 1897.....	5,249	
Number of gas lamps lighted December 31, 1896.....	5,085	
Decrease during the year		164
Number of vapor lamps lighted December 31, 1897.....	4,460	
Number of Welsbach vapor lamps lighted December 31, 1896.....	2,141	
Decrease during the year.....		2,319
Number of 2,000 C. P. arc lamps lighted December 31, 1897.....	854	
Number of 2,000 C. P. arc lamps lighted December 31, 1896.....	879	
Increase during the year		25

TABLE No. 20.
OWNERSHIP AND FRONTAGE MAPS MADE IN 1898 FOR GRADING, PAVING AND SEWERS.

Name of Street.	From Street.	To Street.	Improvement.	Length in Feet.
Alman Court.....	Starkweather.....	East and west ends.....	Sewer.....	545
Amesbury.....	Hough.....	Crawford.....	Pave.....	1,685
Amesbury Place.....	Talbot.....	Northerly end.....	Sewer.....	480
Arlington.....	Cedar.....	Scovill.....	Pave.....	2,970
Baden.....	Quincy.....	Central.....	Pave.....	970
Barkwill.....	Petrie.....	Broadway.....	Sewer.....	1,410
Bayne.....	Waterson.....	Gordon.....	Sewer.....	1,480
Basetta.....	West Madison.....	Willard.....	Sewer.....	2,105
Beaver.....	Geneva Alley.....	150 feet west of pier.....	Sewer.....	900
Beaver.....	Nicola.....	Chester.....	Sewer.....	605
Becker.....	Superior.....	St. Clair.....	Pave.....	3,040
Beechwood.....	Cedar.....	Quincy.....	Pave.....	2,275
Belmont.....	Woodland.....	Croton.....	Pave.....	930
Belmont.....	Woodland.....	Orange.....	Sewer.....	330
Berlin.....	West Madison.....	Lorain.....	Sewer.....	2,130
Bertram.....	Cedar.....	Central.....	Pave.....	1,235

TABLE No. 20—Continued.

Name of Street.	From Street.	To Street.	Improvement.	Length in Feet.
Betheds	Lake	St. Clair.....	Pave	565
Blaine	Marcy	Crawford	Sewer	1,365
Blair	Cedar	Central	Pave	775
Birch	Detroit	Lorain	Pave	3,145
Bragdon	Hartford	Millford	Grade	414
Bradner	Soranton	Jennings	Pave	1,800
Broadway	Liberal	Independence	Re-pave	2,685
Browning	Franklin	Bayne	Sewer	785
Buhrer	Soranton	Jennings	Pave	1,680
Burton	Storer	Rhodes	Sewer	1,600
Burt	Cedar	Quebec	Pave	1,825
Campbell	Union	George	Sewer	650
Caribelli	Mayfield	1,205 feet northerly.....	Grade and Curb	1,208
Carran	Congress	Bolton	Sewer	730
Carter	Soranton	C. C. C. & St. L. R. R.....	Pave	975
Case Alley	Osborn	Kennard	Pave	985
Chatham Alley	Hancock	Keene Alley	Sewer	577
Chatham	Willet	Mechanic	Sewer	470

TABLE No. 20—Continued.

Name of Street.	From Street.	To Street.	Improvement.	Length in Feet.
Charles	Soovill.....	Woodland	Pave	980
Cherry	Perry	Liberal	Pave	700
Chester	Woodland	Southerly end	Pave	1,405
Churchill	Dean	Parkwood	Pave	1,620
Clark	Gordon	Lorain	Pave	4,185
Cleve	Cedar	Sibley	Pave	280
Cleveland Court.....	Lorain	Abbey	Pave	210
Coleman Alley	Iris Alley.....	Easterly end.....	Pave	605
Colfax.....	{ Easterly end	300 feet west of Northeast Ave	Sewer	2,625
	{ Deckand.....	150 feet west of Herald	Sewer	
Cook	Harbor	Burton	Pave	785
Congress.....	Quincy	159 feet north of Remington.....	Sewer	1,320
Conover	West Madison	Lorain.....	Sewer	2,425
Cory	East Madison	Genesee	Sewer	1,140
Cowley	Miles	Southerly end	Sewer	540
Craw	Quincy	Northerly end.....	Grade and Curb	635
Creighton	Chapel	Perry	Pave	540
Curtiss	Willson.....	Tennis.....	Sewer	350

DEPARTMENT OF PUBLIC WORKS.

TABLE NO. 20—Continued.

Name of Street.	From Street.	To Street.	Improvement.	Length in Feet.
Curtiss	Willson.....	Easterly end.....	Pave	1,120
Dare.....	Detroit.....	Lorain.....	Pave	3,180
Davis	West Madison.....	Willard.....	Sewer	2,110
Deekand.....	Kinsman.....	Colfax.....	Sewer	330
Denver Place.....	Laftin.....	Drake.....	Sewer	893
Dibble.....	Willson.....	Norwood.....	Pave	1,590
Diemer.....	Spilker.....	East Madison.....	Sewer	650
Dike.....	Outwaite.....	Forest.....	Pave	1,240
Doan.....	Euclid.....	310 feet northerly.....	Pave	310
Dorothy Place.....	Willson.....	Easterly end	Sewer	200
East Madison.....	Woodland.....	Holton.....	Pave	2,160
East Madison.....	Superior.....	L. S. & M. S. R. R.....	Pave	4,280
East Madison.....	Holton.....	350 feet southerly.....	Sewer	350
Edgewood Place.....	Euclid.....	1,012 feet northerly.....	Pave	1,012
Edmunds.....	Amesbury.....	450 feet easterly.....	Sewer	450
Empress.....	Barber.....	Filmore.....	Grade	1,002
Essex.....	Millford.....	Gauge.....	Grade	450
Ewald.....	East Madison.....	Grand.....	Sewer	555

TABLE No. 20—Continued.

Name of Street.	From Street.	To Street.	Improvement.	Length in Feet.
Fairview.....	Lake View.....	Mayfield.....	Sewer	730
Forest.....	Cedar.....	Central.....	Pave	945
Franklin.....	Harbor.....	Liberty.....	Sewer	970
Franklin.....	Malcolm.....	Pease Court.....	Sewer	886
Franklin Court.....	Franklin.....	Southerly end.....	Sewer	925
Freeman.....	Pearl.....	Columbus.....	Pave	540
Fullerton	Broadway.....	Marcelline.....	Sewer	755
Gauge.....	Train.....	Clark.....	Sewer	890
Gehring	Pearl.....	Lorain.....	Sewer	1,151
Geneva.....	Woodland.....	Beaver.....	Pave	755
Grand.....	Kinsman.....	Herald.....	Sewer	2,760
Grand Army Court	Pearl.....	Easterly end.....	Grade	402
Grant.....	Cedar.....	Central.....	Pave	1,100
Greenwood.....	Central.....	Scovill.....	Pave	825
Griswold.....	Kinsman.....	Slater.....	Pave	638
Grove	Orange.....	Oroton.....	Grade and Curb.....	540
Halsey.....	Cedar.....	Quebec.....	Pave	2,895
Hamm.....	Broadway.....	Petrie.....	Pave	1,705

TABLE NO. 20—Continued.

Name of Street.	From Street.	To Street.	Improvement.	Length in Feet.
Hancock	Pearl	Green	Pave	1,975
Harbor	Franklin	Lorain	Sewer	2,200
Harbor	Franklin	Lorain	Pave	2,200
Hartnell	West Madison	Lorain	Sewer	2,270
Harkness	Marcy	Crawford	Pave	745
Haven	Superior	City Limits	Grade and Curb	660
Hayward	Cedar	Central	Pave	900
Hasen	Perry	Chapel	Sewer	510
Henry	Scovill	Woodland	Pave	955
Hicks	Bridge	Franklin	Sewer	760
High	Sheriff	Miami Alley	Pave	275
Holton	East Madison	C. & P. R.	Grade and Curb	1,430
Irving	Pittsburgh	Woodland	Pave	1,100
Jackson	Pittsburgh	Woodland	Pave	1,130
Jersey	Bridge	Fulton	Sewer	400
Julia	Sawtell	Willson	Pave	835
Keene Alley	Jersey	Penn	Sewer	448
Keene Alley	Pearl	Penn	Pave	1,628

TABLE No. 20—Continued.

Name of Street.	From Street.	To Street.	Improvement.	Length in feet.
Kenilworth	Seranton	Jennings	Pave	795
Kentucky	Woodbine	Whitman	Sewer	280
Lake View	Superior	N. Y. C. & St. L. Ry.	Grade and Curb	2,300
Landon	Detroit	West Madison	Sewer	1,090
LeRoy Place	Superior	Southerly end	Sewer	1,130
Liberal	Cherry	Broadway	Pave	440
Liberty	Franklin	Bridge	Sewer	1,300
Liberty	Franklin	Lorain	Pave	2,320
Linden	Central	Woodland	Pave	2,130
Lockyear	Hodge	Woolsey	Sewer	925
Lodge	Central	Quincy	Pave	945
Logan	Cedar	Quebec	Pave	1,800
Logan Place	Logan	Easterly end	Pave	320
Long	Seneca	South Water	Pave	1,215
Lowell	Lake	Detroit	Sewer	1,985
Lucia	East Madison	Edwards	Grade and Curb	625
Luciel	Euclid	Mayfield	Grade and Curb	985
Lufkin	Willson	Drake	Sewer	1,155

TABLE No. 20—Continued.

Name of Street.	From Street.	To Street.	Improvement.	Length in Feet.
Lyons	Superior	Prosser	Sewer	650
Mandrake	Water	208 feet westerly	Pave	208
Maple	Central	Woodland	Pave	2,055
Mayflower	Woodland	Croton	Pave	985
Mechanic	Lorain	Bailey	Pave	1,400
Meeker Alley	Bridge	Fulton	Pave	160
Melrose	Giddings	East Madison	Grade and Curb	1,140
Melrose	East Madison	Genesee	Pave	1,280
Merchant	Cliff	Auburn	Pave	3,200
Miles	Broadway	Easterly city limits	Pave	2,310
Mill	Monroe	C. C. & St. L. Ry.	Pave	650
Montgomery	Giddings	Parker	Grade and Curb	630
Mueller	West Madison	90 feet south of Oudell	Sewer	1,200
Myrtle Court	Sawtell	Westerly end	Grade and Curb	729
Newton	Cedar	Central	Pave ..	735
Nicola	Kinsman	Beaver	Sewer	520
Nicola	Kinsman	Beaver	Pave	520
North East	Kinsman	Hillside	Sewer	660

TABLE No. 20—Continued.

Name of Street.	From Street.	To Street.	Improvement.	Length in Feet.
Norwood	St. Clair	Hough	Sewer	5,780
Oak Park	Detroit	794 feet southerly	Grade and Curb	784
Ocean	Woodland	Bushnell	Pave	925
Ohio	Seneca	Stone's levee	Pave	920
Outhwaite	Kennard	Cemetery	Pave	3,150
Oxford	St. Clair	L. S. & M. S. R. R.	Sewer	1,590
Pearl Alley	Lorain	Northerly end	Pave	1,420
Pelton	Starkweather	Cliff	Pave	2,600
Pelton Alley	Pelton	Merchant	Sewer	575
Perkins	Case	Willson	Pave	1,760
Petrie	Nuss	Vivian	Sewer	2,200
Pier	Woodland	Beaver	Pave	750
Portland	Kennard	Willson	Pave	1,075
Princeton	Hough	Linwood	Pave	910
Professor	Pelton	Starkweather	Pave	2,210
Putnam	Scovill	Woodland	Pave	1,135
Quincy	Willson	Giddings	Pave	3,275
Quincy	Bolton	Woodland Hills	Pave	3,475

TABLE NO. 20—Continued.

Name of Street.	From Street.	To Street.	Improvement.	Length in Feet.
Rawlings	Herald	East Madison	Sewer	880
Republic Place	Republic	Westerly end.....	Pave	369
Richland	Central	Quincy	Pave	950
Root	Franklin	Lorain	Pave	2,275
Root	Franklin	Bridge	Sewer	1,465
Russell	Zoeter	Beecher	Sewer	600
Russell	Superior	Lexington	Pave	2,860
Scott	Bridge	Scott Alley	Pave	1,090
Scott Alley	Scott	Courtland	Pave	340
Scranton	Walworth Run	Kenilworth	Sewer	1,860
Second	Central	Quincy	Pave	965
Seward	Lake	Detroit	Sewer	840
Sheppard	Ware	Westerly end.....	Grade and Curb	291
Shipherd	Wade Park	Superior	Pave	1,785
South Wilkon	Fleet	Mound	Grade and Curb	1,585
Southern	Quincy	Woodland	Pave	1,820
Spafford	Fullerton	Jones	Sewer	2,410
Spilker	East Madison	Diemer	Sewer	495

TABLE NO. 20—Continued.

Name of Street.	From Street.	To Street.	Improvement.	Length in Feet.
Sterling	Cedar	Woodland	Pave	2,760
Stone's levee	Ohio	200 feet southerly	Pave	200
Storer	Rhodes	1,182 feet easterly	Grade and Curb	1,182
Store	Rhodes	Lapier	Grade and Curb	1,880
Taylor	Twenty-third ave.	West River	Sewer	1,075
Tennyson	Woodland	Evarts	Pave	790
Thurman	Pelton	Literary	Pave	698
Thurman	Pelton	Literary	Sewer	698
Trent	Selden	Gauge	Grade and Curb	264
Trumbull	Forest	Davis	Sewer	540
Tustin	625 feet Forest	Easterly end	Grade and Curb	122
Vettry	Pearl	York	Sewer	528
Wallingford Court	Woodland	Southerly end	Pave	850
Walter	Enclid	Southerly end	Sewer	1,130
Warden	Pearl	Easterly end	Sewer	560
Watkins	Cedar	East Prospect	Pave	400
Wellington	Detroit	Willard	Sewer	3,145
West Clinton	Waterson	220 feet west of Gordon	Sewer	1,520

TABLE No. 20—Concluded.

Name of Street.	From Street.	To Street.	Improvement.	Length in Feet.
West Clinton.....	Waterson	Gordon	Pave	1,520
West Madison.....	Gordon	Berea Road.....	Sewer	8,560
West Roy	Detroit	Franklin	Sewer	713
West Trenton	Detroit	Franklin	Sewer	700
White	Wilson	Norwood.....	Pave	1,560
Whitehead	Broadway	Harvard	Sewer	520
Wilcott.....	Woodland	Beaver	Pave	740
Wilhelm.....	Holton	Southerly end	Sewer	1,225
Wilhelm.....	Holton	Southerly end	Grade and Curb	1,225
Winslow	Washington	West River.....	Pave	1,545
Woodbridge.....	Rhodes	Burton	Sewer	460
Woodland Hills	Union	Asia.....	Sewer	1,550

Total number of streets 219
 Total length in feet 285,699
 Total length in miles 50.32

TABLE No. 21.
SIDEWALK GRADES GIVEN IN 1898.

Name of Street.	From Street.	To Street.	Length in Feet.
A	B	Brookside.....	1400
Andale.....	Euclid	Crawford	1878
Berwick.....	Kinsman.....	B.....	1920
Berwick	Kinsman.....	Ansel	288
Berry.....	Ridge.....	Westerly.....	1314
Bessett	Detroit	Northerly.....	1400
Divine.....	Bailey	Westerly end	768
Ellsworth.....	Woodland	Southerly.....	2348
East Clark	Petrie.....	Colorado	1982
East Madison	Kinsman.....	Southerly.....	1200
East Madison.....	Kinsman.....	Northerly.....	800
Fullerton.....	Skinner.....	Tod.....	2640
Hecker.....	East Madison.....	Becker	1152
Haddock.....	Upton.....	Woodland Hills.....	3060

TABLE No. 21—Continued.

Name of Street.	From Street.	To Street.	Length in Feet.
Hoyt.....	St. Clair.....	L. S. & M. S. Ry.....	1851
Hodge.....	St. Clair.....	Nora.....	4058
Herbert.....	Francis.....	Northerly.....	2182
Jefferson.....	University.....	Professor.....	886
Kane.....	Freas.....	Palm.....	742
Kirtland.....	Hamilton.....	L. S. & M. S. Ry.....	1288
Kirkwood.....	Basetta.....	Wellington.....	1286
Kimmel.....	Sykora.....	Hunting.....	1069
Luverne.....	Bradwell.....	High View.....	682
Marvy.....	Superior.....	Gale.....	971
Marvy.....	Wade Park.....	Superior.....	1876
Marvilline.....	Henrietta.....	City Limits.....	3648
Melrose.....	East Madison.....	Giddings.....	986
Palm.....	Kane.....	N. Y., C. & St. L. Ry.....	404
Quebec.....	Oakdale.....	Doan.....	3400
Scarl.....	Storer.....	Dennet ca.....	3548

TABLE No. 21—Concluded.

Name of Street.	From Street.	To Street.	Length in Feet.
Storer.....	Isabella.....	Gordon	5774
Willard.....	Davis.....	Wellington	800
Westworth.....	Ridge.....	Alley.....	1370
• Wilmar.....	Superior.....	Whitney	1214
York	Monroe.....	Mill.....	1428

35 streets, 62,573 lin. ft.—11.85 miles.

TABLE No. 22.
ELECTRICAL SUBWAYS AND CONDUITS.

Company.	Style of Conduits.	Lineal Feet Subway in 1898.	Lineal Feet of Pipe Put Down in 1898.	Total Length of Subway in City.	Total Lineal Feet of Pipe in City.
Western Union Telegraph Co.....	3-inch wrought iron.....	2,285	6,380	11,182	25,315
Postal Telegraph Co	3-inch wrought iron.....	1,416	1,416	15,742	70,721
Cleveland Telephone Co	4½-inch terra cotta.....	13,639	98,576	100,171	753,359
• Cleveland Electrical Illuminating Co.....	4½-inch terra cotta.....	18,315	175,521	80,561	425,391
Cleveland Electrical Illuminating Co.....	1½-inch and 2-inch wrought iron.....	4,073	4,073	.....	.....
Home Telephone Co	4½-inch terra cotta.....	78,904	1,160,686	94,644	1,277,083
American District Telegraph Co.....	3-inch wrought iron.....	.....	.....	5,000	5,000
Totals.....	.....	118,632	1,346,632	316,303	2,561,819

TABLE No. 22—Continued.

MAPS MADE SHOWING ELECTRICAL CONDUITS, SUBWAYS AND MANHOLES IN THE FOL-
LOWING TERRITORY TO DECEMBER 31, 1898.

Sheet Number.	From	To	Between	And
1	Center Street.....	Viaduct.....	South Water Street.....	Merwin Street.....
2	Superior Street.....	St. Clair Street.....	Water Street.....	Seneca Street.....
3	St. Clair Street.....	Front Street.....	Water Street.....	Seneca Street.....
4	Superior Street.....	St. Clair Street.....	West Side Monumental Court...	Cass Place.....
5	South Side Monumental Court...	Prospect Street.....	Diebolt Place.....	Hickox Street.....
6	Euclid Avenue.....	Prospect Street.....	Erle Street.....	Oak Place.....
7	Superior Street.....	St. Clair Street.....	Wood Street.....	Erle Street.....
8	Euclid Avenue.....	High Street.....	Middle and Sheriff Streets.....	Bond Street.....
9	Ontario Street.....	Sheriff Street.....	High Street.....	Bolivar Street.....
10	Eagle Street.....	Central Avenue.....	Ontario Street.....	Woodland Avenue.....

TABLE No. 22—Concluded.

Sheet Number.	From	To	Between	And
11	Superior Street.....	St. Clair Street.....	East River Street.....	Water Street.....
12	Euclid Avenue.....	Superior Street.....	Bond Street.....	Erle Street.....
13	St. Clair Street.....	Summit Street.....	Wood Street.....	Erle Street.....
14	St. Clair Street	Summit Street.....	Seneca Street.....	Wood Street.....
15	Michigan and Canal Streets.....	Superior Street.....	South Water Street.....	Seneca Street.....

DEPARTMENT OF PUBLIC WORKS.

Report of the Inspector of Gas.

Report of the Inspector of Gas.

CLEVELAND, O., February 1, 1899.

Hon. George R. Warden, Director of Public Works:

I have the honor to submit herewith the annual report of the Inspector of Gas for the year 1898.

A city ordinance fixes the duties of the City Gas Inspector as follows: It shall be the duty of the Inspector of Gas to make semi-weekly photometric and other tests of gas, and to keep a record of the pressure, quality and candle power of the same.

In the examination of gas the following tests are made; quantity of sulphur present, quantity of ammonia, analysis, and candle power.

WATER GAS.

On Nov. 21st I was notified by the Mayor to discover whether the Cleveland Gas Light Co. was manufacturing water gas and adding it to the coal gas for distribution among the residents supplied by the Gas Works located on Willson avenue near the lake.

This gas works supplies the people with gas in the eastern section of the city by means of three mains; one located on Willson avenue, the second on Armitage street, and the third passes through Madison avenue.

Samples of gas were taken from these mains on several occasions, with the following results:

Nov. 21st.—Samples taken at 11 a. m.

Willson avenue main contained no water gas.

Armitage street main contained no water gas.

Nov. 25th.—Samples taken at 10 a. m.

Willson avenue main contained no water gas.
Armitage street main contained no water gas.

Nov. 29th.—Samples taken at 10 a. m.

Willson avenue main contained no water gas.
Armitage street main contained 5 to 10 per cent of water gas.

Dec. 2nd.—Samples taken at 10 a. m.

Willson avenue main contained no water gas.
Armitage street main contained no water gas.

Dec. 7th.—Samples taken at 10 a. m.

Willson avenue main contained no water gas.
Armitage street main contained no water gas.
Madison avenue main contained no water gas.

Dec. 12th.—Samples taken at 10:30 a. m.

Willson avenue main contained 10 per cent of water gas.
Armitage street main contained no water gas.

Dec. 16th.—Samples taken at 4 p. m.

Willson avenue main contained 20 per cent of water gas.
Armitage street main contained no water gas.
Madison avenue main contained no water gas.

Dec. 23rd.—Samples taken at 5 p. m.

Willson avenue main contained 20 per cent of water gas.
Armitage street main contained 5 to 10 per cent. of water gas.

From these results it is evident that a water gas plant has been established by the Cleveland Gas Light Co., and that this water gas is being mixed with coal gas.

STREET VAPOR BURNERS.

During the first seven months of this year, the old style 14 candle power street vapor burners were in use.

Of these, fifty were tested during each month and the average candle power of these fifty burners was taken as the average candle power of the 5,000 burners throughout the

city. The contract with the lighting company specified that the average candle power of the fifty burners tested must be 14, and for every candle power below 14, a 6 per cent. deduction is to be made in the compensation received by the lighting company. Beginning with the month of August the new Welsbach street vapor burners were substituted, giving a much higher candle power.

The contract in this case with the lighting company specifies that the burners must give a 70 candle power light.

The following table shows the results of the monthly tests:

TABLE NO. 1.

TEST OF STREET VAPOR BURNERS.

MONTH.	Required Candle Power.	Average Candle Power.	Maximum Candle Power.	Minimum Candle Power.	Number of burners above legal candle power.	Number of burners below legal candle power.	No. of Burners Tested.
January	14	18.89	44.0	4.6	40	10	50
February	14	17.25	33.2	5.0	39	11	50
March	14	16.26	37.2	6.0	37	13	50
April	14	10.67	24.6	1.0	11	39	50
May	14	16.19	23.0	6.8	35	15	50
June.....	14	15.19	27.0	1.0	30	20	50
July.....	14	12.37	32.4	5.0	11	39	50
August	70	84.30	104.0	67.2	29	1	30
September.....	70	80.50	102.4	67.2	29	1	30
October	70	90.83	110.0	67.2	29	1	30
November	70	80.53	105.6	10.6	27	3	30
December.....	70	78.68	105.6	36.8	25	5	30

CANDLE POWER.

The gas furnished to the citizens of Cleveland must be tested semi-weekly to determine its candle power, which must not be less than 18 under standard conditions.

As will be seen by the accompanying tables, the gas at all times during the past year has been above the standard fixed by ordinance.

TABLE NO. 2.

CANDLE POWER OF THE GAS OF THE CLEVELAND
GAS LIGHT & COKE CO.

Week Ending.	Candle Power.	Week Ending.	Candle Power.	Week Ending.	Candle Power.	Week Ending.	Candle Power.
January 8.....	18.90	April 9.....	18.79	July 9.....	22.56	October 8.....	21.14
	19.47		19.27		20.23		20.23
" 15.....	20.27	" 16.....	20.31	" 16.....	22.33	" 15.....	19.87
	20.11		19.07		21.97		20.53
" 22.....	19.88	" 23.....	19.57	" 23.....	22.11	" 22.....	21.29
	20.45		20.21		21.43		20.62
" 29.....	19.64	" 30.....	21.16	" 30.....	21.13	" 29.....	21.96
	20.11		22.04		20.67		21.54
February 5.....	19.42	May 7.....	21.33	August 6.....	21.28	Nov. 5.....	20.71
	19.94		20.79		20.59		20.39
" 12.....	20.53	" 14.....	19.35	" 13.....	20.91	" 12.....	20.47
	19.39		22.71		20.17		21.16
" 19.....	18.85	" 21.....	23.34	" 20.....	20.63	" 19.....	22.01
	19.01		22.06		20.72		21.80
" 26.....	19.52	" 28.....	21.12	" 27.....	21.66	" 26.....	21.67
	20.19		21.62		20.98		21.14
March 5.....	20.51	June 4.....	23.34	Sept. 3.....	22.07	Dec. 3.....	18.73
	19.36		22.40		21.83		19.57
" 12.....	18.39	" 11.....	20.96	" 10.....	20.79	" 10.....	18.63
	18.32		21.14		20.29		20.38
" 19.....	19.42	" 18.....	21.87	" 17.....	21.14	" 17.....	20.70
	19.01		22.09		21.58		20.01
" 26.....	18.67	" 25.....	22.66	" 24.....	20.35	" 24.....	18.49
	19.07		21.84		21.83		18.79
April 2.....	20.21	July 2.....	20.70	October 1.....	21.44	" 31.....	20.16
	18.69		21.43		21.65		19.39

TABLE No. 3.

CANDLE POWER OF THE GAS OF THE CLEVELAND
GAS LIGHT & COKE CO.

MONTH.	Average Candle Power.	Maximum.	Minimum.	Number of Tests.
January	19.85	20.45	18.90	8
February	19.61	20.53	18.85	8
March	19.27	20.51	18.32	9
April	19.90	22.04	18.69	9
May	21.54	23.34	19.35	8
June	21.89	23.34	20.70	9
July	21.53	22.56	20.23	9
August	21.04	22.07	20.17	9
September	19.91	21.83	20.29	8
October.....	20.99	21.96	19.67	9
November.....	20.89	22.01	18.73	9
December ..	19.57	20.70	18.49	9

SULPHUR IN ILLUMINATING GAS.

Sulphur is considered an impurity of gas and the smaller the quantity of it, the greater is the purity of the gas.

It exists in varying percentages in all illuminating gases, whether purified or unpurified.

It exists in the coal as a sulphide generally, which sulphide by the process of gas making is completely broken up and the sulphur of it passes into the gas.

It is removed from the gas as far as possible by purification, but invariably exists in quantities ranging from 15 to 30 grains per 100 cubic feet of gas. The quantity of sulphur is limited in many cities to 20 grains per 100 cubic feet of gas.

The sulphur is determined by means of the Drehschmidt apparatus, which is practical and efficient.

TABLE No. 4.

SULPHUR IN THE GAS OF THE CLEVELAND GAS
LIGHT & COKE CO.

Week Ending.	Grains of Sulphur.	Week Ending.	Grains of Sulphur.	Week Ending.	Grains of Sulphur.	Week Ending.	Grains of Sulphur.
Jan. 8.....	23.47	Apr. 9.....	31.73	July 9.....	11.85	Oct. 8.....	24.24
	22.89		23.88		13.92		20.59
" 15.....	23.41	" 16.....	22.78	" 16.....	12.93	" 15.....	24.78
	23.88		21.18		12.70		22.98
" 22.....	23.78	" 23.....	22.04	" 23.....	12.57	" 22.....	21.81
	23.12		22.19		12.16		22.64
" 29.....	23.35	" 30.....	21.13	" 30.....	12.63	" 29.....	22.37
	23.49		21.22		18.39		22.54
Feb. 5.....	24.09	May 7.....	22.69	Aug. 6.....	19.51	Nov. 5.....	22.08
	22.88		22.19		18.26		18.71
" 12.....	23.13	" 14.....	22.81	" 13.....	19.71	" 12.....	23.65
	22.64		21.96		20.44		23.61
" 19.....	25.62	" 21.....	23.69	" 20.....	17.32	" 19.....	24.33
	22.70		22.21		18.47		25.29
" 26.....	22.22	" 28.....	22.52	" 27.....	19.43	" 26.....	25.11
	21.73		20.70		18.72		26.69
Mar. 5.....	24.11	June 4.....	21.58	Sept. 3.....	20.56	Dec. 3.....	26.66
	23.09		21.16		20.14		26.14
" 12.....	13.89	" 11.....	21.37	" 10.....	20.11	" 10.....	27.40
	23.61		21.65		19.21		23.26
" 19.....	23.26	" 18.....	20.63	" 17.....	22.72	" 17.....	27.16
	24.71		21.59		22.92		29.05
" 26.....	23.92	" 25.....	19.50	" 24.....	22.75	" 24.....	24.10
	20.98		12.68		21.75		21.97
Apr. 2.....	25.19	July 2.....	14.30	Oct. 1.....	20.80	" 31.....	23.29
	27.88		12.34		22.33		22.61

TABLE No. 5.

**SULPHUR IN THE GAS OF THE CLEVELAND GAS
LIGHT & COKE CO.**

Month.	Average Grains of Sulphur.	Maximum.	Minimum.	Number of Tests.
January	23.42	23.88	22.89	8
February	23.12	25.62	21.73	8
March	23.19	28.26	18.89	9
April	23.78	31.73	21.13	9
May	22.34	23.69	20.70	8
June	19.44	21.87	12.68	9
July	18.82	18.30	11.85	9
August	19.15	20.56	17.32	9
September	21.41	22.92	19.21	9
October	22.74	24.78	20.59	8
November	24.00	26.68	18.71	9
December	24.99	29.05	21.97	9

AMMONIA.

Ammonia is also considered an impurity of gas. It resembles sulphur in one respect and that is that it is found in purified illuminating gas of this city almost constantly.

If the process of washing gas is not thorough the ammonia exists in relatively large quantities, so the absence of this impurity may be taken as an indication of the completeness of the washing. When gas is washed quickly the quantity of ammonia is increased.

Ammonia is limited by the laws of various cities to quantities varying from 2 to 10 grains per 100 cubic feet.

TABLE No. 6.
AMMONIA IN THE GAS OF THE CLEVELAND GAS
LIGHT & COKE CO.

Week Ending.	Grains of Ammonia.	Week Ending.	Grains of Ammonia.	Week Ending.	Grains of Ammonia.	Week Ending.	Grains of Ammonia.
Jan. 8.....	.36	Apr. 9.....	.35	July 9.....	2.22	Oct. 8.....	7.96
	.28		.33		1.97		5.76
" 15.....	.14	" 16.....	.38	" 16.....	2.13	" 15.....	4.71
	.18		.33		2.73		3.42
" 22.....	.79	" 23.....	.35	" 23.....	3.72	" 22.....	2.59
	.46		.31		3.42		1.74
" 29.....	.65	" 30.....	.36	" 30.....	4.41	" 29.....	1.94
	.43		.34		4.47		.70
Feb. 5.....	.27	May 7.....	.35	Aug. 6.....	3.79	Nov. 5.....	1.08
	.35		.34		4.18		1.33
" 12.....	.41	" 14.....	.36	" 13.....	3.58	" 12.....	.98
	.29		.32		3.95		.69
" 19.....	.26	" 21.....	.38	" 20.....	3.99	" 19.....	.70
	.47		.40		4.17		.83
" 26.....	.51	" 23.....	.35	" 27.....	4.23	" 26.....	.53
	.57		.38		4.06		.56
Mar. 5.....	.64	June 4.....	.53	Sept. 3.....	4.63	Dec. 3.....	.43
	.78		.60		4.49		.98
" 12.....	.54	" 11.....	.69	" 10.....	4.70	" 10.....	.30
	.57		.54		4.84		.30
" 19.....	.66	" 18.....	.60	" 17.....	4.98	" 17.....	.19
	.61		.69		4.90		.47
" 26.....	.53	" 25.....	.76	" 24.....	4.62	" 24.....	.39
	.57		1.07		4.25		.37
Apr. 2.....	.62	July 2.....	1.41	Oct. 1.....	3.74	" 31.....	.33
	.60		1.82		6.51		.30

CHEMICAL ANALYSIS OF GAS.

A complete analysis of the gas supplied by the Cleveland Gas Light & Coke Co. has been made semi-weekly.

The analysis consists of the following determinations: Carbon dioxide, illuminants, oxygen, carbonic oxide, hydrogen, methane and nitrogen.

The illuminants constitute the light-giving portion of the gas.

The analysis is valuable in conjunction with the test of candle power, as the candle power of a coal gas is generally shown by the percentage of illuminants found.

The greater the percentage of illuminants the higher the candle power.

The per cent. of oxygen in an illuminating gas is evidence, if it exists in a high percentage together with a high per cent. of nitrogen, of the presence of air in the gas.

Coal gas almost universally contains some oxygen. Carbonic oxide is the gas which gives to water gas its poisonous properties, as it exists in water gas in quantities ranging from 3 to 5 times as great as in coal gas.

If the percentage of carbonic oxide in any illuminating coal gas rises above 9 per cent., it is proof that water gas has been added.

High percentages of carbonic oxide were found during the months of November and December. By a material increase of the hydrogen, the presence of added water gas is noticed.

This test for water gas is not so conclusive as the determination of water gas by the increase in the percentage of carbonic oxide.

Marsh gas is a gas always formed in the destructive distillation of coal and is present in all illuminating gases, whether water or coal gas. It has a feeble illuminating power.

TABLE No. 7.

ANALYSIS OF GAS OF THE CLEVELAND GAS LIGHT
AND COKE CO.

Week Ending.	Per cent. of Carbon Dioxide.	Per cent. of Illuminants.	Per cent. of Oxygen.	Per cent. of Carbonic Oxide.	Per cent. of Hydrogen.	Per cent. of Methane.	Per cent. of Nitrogen.
January 8.....	1.61	5.43	.62	7.21	42.57	37.08	5.48
	1.48	5.61	.46	7.34	43.19	36.53	5.40
" 15.....	1.29	5.82	.53	7.09	42.53	37.09	5.55
	1.42	5.73	.76	7.53	42.14	36.72	5.70
" 22.....	1.59	5.85	.98	7.18	43.11	36.10	5.29
	1.64	5.94	.67	7.20	43.17	36.15	5.23
" 29.....	1.30	5.89	.71	6.87	43.36	36.44	5.43
	1.53	5.76	.89	6.53	43.39	36.18	5.72
February 5.....	1.75	4.74	1.80	6.94	42.01	36.20	6.56
	1.40	5.50	1.30	6.26	42.10	36.53	6.91
" 12.....	1.52	5.47	1.02	7.06	42.81	37.41	4.81
	1.35	5.65	.55	7.42	43.53	36.93	4.57
" 19.....	1.43	5.42	.48	7.25	43.14	36.31	5.97
	1.56	5.53	.61	7.43	42.00	37.01	5.86
" 26.....	1.57	5.91	.79	7.21			
	1.66	5.74	.64	7.34			
March 5.....	1.63	5.76	.72	7.22			
	1.54	5.84	.45	7.46			
" 12.....	1.59	5.58	.86	7.25			
	1.38	5.81	.57	7.34			
" 19.....	1.46	5.76	.63	7.18			
	1.29	5.95	.74	7.57			
" 26.....	1.68	5.92	.59	7.21			
	1.45	5.79	.82	7.33			
April 2.....	1.71	5.87	.73	7.15			
	1.91	5.73	.56	7.42			

TABLE NO. 7—Continued.

Week Ending.	Per cent. of Carbon Dioxide.	Per cent. of Illuminants.	Per cent. of Oxygen.	Per cent. of Carbonic Oxide.	Per cent. of Hydrogen.	Per cent. of Methane.	Per cent. of Nitrogen.
April 9.....	1.56	5.43	.53	7.51	44.31	34.94	5.72
	1.34	5.72	.72	7.68	42.98	36.74	4.84
" 16.....	1.71	5.56	.65	7.85	42.29	35.21	6.73
	1.54	5.98	.59	7.57	42.87	35.70	5.75
" 23.....	1.26	5.49	.80	7.94	43.60	35.11	5.80
	1.15	5.76	.75	7.43	44.76	35.69	4.46
" 30.....	.97	6.45	.64	7.26	45.02	34.27	5.39
	1.43	6.27	.67	7.62	42.21	36.13	5.67
May 7.....	1.17	6.04	.67	7.59	43.12	35.01	6.40
	1.08	5.92	.75	7.80	44.19	34.32	5.94
" 14.....	1.96	5.34	.69	8.03	42.17	35.54	6.27
	1.20	5.98	.69	8.12	42.54	34.93	6.54
" 21.....	1.20	6.19	.71	8.17	43.19	34.21	6.33
	.89	6.42	.79	7.69	43.74	35.30	5.17
" 28.....	.74	6.37	.67	7.27	45.01	34.30	5.74
	.69	6.20	.59	7.50	45.81	34.60	4.61
June 4.....	.97	5.96	.53	7.33	43.81	36.07	5.27
	.85	6.22	.48	6.96	44.75	34.90	5.92
" 11.....	1.29	6.00	.61	9.03	40.17	37.46	5.44
	1.14	5.74	.46	8.23	42.27	36.65	5.51
" 18.....	1.19	5.53	.27	7.20	37.97	37.54	10.30
	1.21	5.19	.39	8.04	39.96	38.78	6.43
" 25.....	1.21	6.00	.00	8.81	39.27	37.49	7.23
	.91	5.60	.50	6.80	39.24	38.90	8.06
July 2.....	1.20	5.70	.20	7.09	40.80	37.40	7.61
	1.30	5.50	.40	5.93	43.77	37.98	5.17
" 9.....	1.30	5.49	.00	8.48	40.02	35.28	9.43
	1.44	5.60	.13	8.17	37.66	36.53	10.47

TABLE No. 7—Continued.

Week Ending.	Per cent of Carbon Dioxide.	Per cent of Illuminants.	Per cent of Oxygen.	Per cent of Carbonic Oxide.	Per cent of Hydrogen.	Per cent of Methane.	Per cent of Nitrogen.
July 16.....	1.31	5.39	.10	8.31	37.66	37.53	9.70
	.98	6.21	.23	7.71	39.70	37.09	8.08
" 23.....	.87	6.13	.20	7.04	38.11	39.02	8.63
	1.34	5.96	.20	6.74	36.01	40.32	9.43
" 30.....	1.43	5.78	.30	6.14	37.37	40.54	7.94
	1.19	5.82	.32	6.32	38.54	40.54	7.27
August 6.....	1.27	5.67	.47	6.95	39.44	40.59	5.61
	1.53	5.96	.52	6.49	36.23	40.70	8.57
" 13.....	1.15	5.88	.31	6.78	38.13	40.11	7.64
	1.48	6.02	.16	7.34	37.35	39.63	8.02
" 20.....	1.39	5.77	.37	7.63	36.91	40.56	7.37
	1.33	6.15	.53	8.24	36.26	41.17	6.32
" 27.....	1.46	5.84	.72	8.54	36.76	40.34	6.34
	1.11	5.79	.91	6.73	37.18	39.81	8.47
September 3.....	1.62	5.63	.64	7.27	37.57	38.79	8.48
	1.48	5.91	.55	5.96	40.21	37.44	8.45
" 10.....	1.26	6.17	.71	8.23	36.14	39.68	7.81
	1.28	6.08	.41	8.15	37.16	33.86	8.06
" 17.....	1.20	5.74	.59	8.32	36.87	39.53	7.75
	1.30	5.99	.73	7.61	39.38	36.80	7.69
" 24.....	1.41	6.03	.91	7.98	37.53	38.73	7.41
	1.55	5.67	.65	6.81	40.12	38.63	6.57
October 1.....	1.30	6.18	.76	6.53	40.21	37.67	7.35
	1.21	5.76	.49	7.69	40.38	36.91	7.56
" 8.....	1.43	5.32	1.15	6.71	43.58	35.87	5.94
	1.72	5.59	.79	7.38	42.71	35.54	6.27
" 15.....	1.84	5.20	1.22	6.93	44.11	34.35	6.35
	1.58	5.77	.56	7.38	41.90	34.36	8.45

TABLE NO. 7—Concluded.

Week Ending.	Per cent. of Carbon Dioxide.	Per cent. of Illuminants.	Per cent. of Oxygen.	Per cent. of Carbonic Oxide.	Per cent. of Hydrogen.	Per cent. of Methane.	Per cent. of Nitrogen.
October 22	1.65	5.88	.84	6.90	40.48	37.57	6.68
	1.70	5.16	.53	8.25	42.62	36.21	5.53
" 29	1.23	5.63	.80	7.74	42.30	37.22	5.08
	1.44	5.40	.62	7.94	42.28	36.94	5.38
November 5.....	1.57	5.77	.85	7.21	43.91	36.39	4.30
	1.53	5.54	.98	7.63	43.39	36.77	4.16
" 12.....	1.67	5.32	.83	7.86	39.86	37.18	7.28
	1.43	5.67	.74	7.84	42.04	34.58	7.70
" 19.....	1.27	5.45	.65	7.55	40.87	36.49	7.72
	1.52	5.38	.79	7.52	39.93	38.72	6.14
" 26.....	.89	5.49	.42	6.61	40.75	40.31	5.53
	1.32	5.23	.61	6.25	41.71	39.25	5.63
December 3.....	1.26	5.19	.79	6.80	40.83	38.86	6.27
	1.02	5.30	.71	6.98	42.71	36.40	6.88
" 10.....	1.64	5.68	.46	6.76	45.01	36.08	4.36
	1.32	5.12	.30	6.65	39.05	38.62	8.34
" 17.....	.92	5.05	.61	6.02	44.39	36.55	6.46
	1.64	5.52	.31	6.49	40.53	37.34	8.17
" 24.....	1.74	5.47	.43	6.71	42.50	36.00	7.15
	1.69	5.22	.37	6.94	41.62	37.67	6.49
" 31.....	1.23	5.03	.22	7.53	42.26	37.00	6.73
	1.94	6.35	.24	9.56	41.33	34.25	6.33

TUNNEL AIR.

On the 11th day of May and July disastrous explosions took place in the shore end of the new water tunnel.

It was deemed advisable after these explosions to make chemical analyses of the air of the tunnel at intervals to determine the percentage of explosive gas.

During September the shore end of the tunnel was abandoned and the work was carried on only at Crib No. 1, which is the first temporary crib. The following table shows the percentage of marsh gas, or explosive gas, found on the dates given at the locations named.

The distances given are all measured from the shaft at either the shore end or from the shaft at Crib No. 1.

By East Drift is designated that portion of the tunnel extending from Crib No. 1 toward the shore. By West Drift is meant that portion of the tunnel extending from Crib No. 1 westward to Crib No. 2.

Samples marked top were taken from a position one foot under the rounded roof of the tunnel. Samples marked middle were taken about five feet from the floor of the tunnel. Samples marked bottom were taken about two feet from the bottom of the tunnel.

Inside lock or air lock samples were taken from immediately inside the air lock, which is situated in both drifts at 100 feet from the shaft.

Face samples were taken near the end of the tunnel, where the work of excavation is being carried on.

The intermediate distances, as 1,000 feet, 1,400 feet, were taken about the middle of the tunnel.

Above brick work, samples were taken near the face above the completed brick work.

If any explosive gas exists in the earth through which the tunnel is passing, this is the most probable place to find it.

The explosive gas found in the tunnel consists entirely of marsh gas, six parts of which mixed with 94 parts of air, constitute an explosive mixture under the pressure maintained on the tunnel if a spark or light is brought into contact with such mixture.

The Water Works Division endeavors to keep the percentage of marsh gas below 2.5 per cent. if possible by sufficient ventilation.

TABLE NO. 8.

PERCENTAGES OF MARSH GAS IN TUNNEL AIR, FROM
CRIB No. 1, EAST DRIFT.

	Aug. 18.	Aug. 23.	Sept. 19.	Sept. 30.	Oct. 17.
Inside of air lock, top	1.64	1.78	1.94	1.98	1.01
Inside of air lock, bottom	1.69	1.81	2.04		
1000 feet, top	1.73	2.38	1.44	1.13	.59
1000 feet, bottom	1.54	2.27	1.43		
At face, top	1.36		1.15	1.57	
At face, middle			1.26	1.41	1.12
At face, bottom	1.38	2.33	1.33	1.26	.84
Above brickwork		33.43			26.66
At inlet (air) pipe .....		.10			
Bottom of shaft	1.54				

TABLE No. 8—Concluded.

	Oct. 29.	Nov. 18.	Nov. 29.	Dec. 4.	Dec. 20.
Inside air lock, top.....		.97	1.54	1.43	1.02
1000 feet, top .....	.11				
1400 feet, top			1.79	1.43	1.88
Face, top			1.55	.71	.59
Face, middle .....	.68				
Face, bottom .....	.62	.74	1.00	1.01	.92
Above brickwork.....		1.26	1.04	.38	.81

TABLE No. 9.

PERCENTAGES OF MARSH GAS IN TUNNEL AIR, FROM
CRIB No. 1, WEST DRIFT.

	Aug. 18.	Aug. 28.	Sept. 19.	Sept. 30.	Oct. 17.
Inside lock, top.....	1.82	2.11	1.83	1.13	.67
Inside lock, bottom	1.86	2.07	1.27		
1000 feet, top	1.52	2.09	.94	1.43	.67
1000 feet, bottom	2.04	2.18	.77		
At face, top.....	1.48	2.08	1.24	.89	
At face, middle.....			1.89	1.04	.60
At face, bottom	2.06	2.21	1.72	1.26	.89
Above brickwork					21.89

TABLE No. 9—Concluded.

	Oct. 29.	Nov. 18.	Nov. 29.	Dec. 4.	Dec. 20.
Inside air lock, top.....	.96	1.01	.63	1.21	1.73
1000 feet, top .....	.09				
1400 feet, top				2.33	2.06
At face, top .....			.27	.90	1.70
At face, middle.....		.37			
At face, bottom .....		.21		2.11	1.85
Above brickwork	8.66			15.89	2.58

TABLE NO. 10.

ANALYSIS OF TUNNEL AIR, SHORE END OF TUNNEL,
PERCENTAGE OF MARSH GAS.

	Aug. 2.	Aug. 10.	Sept. 16.
Outside air lock, top.....	4.44	1.36	1.06
Outside air lock, bottom	4.04		
3700 feet, top .....			.87
3700 feet, bottom .....			.81
4200 feet, top	3.74		
4200 feet, bottom	3.29		
4700 feet, top	4.00		
4700 feet, bottom	3.68		
5200 feet, top	4.08		1.24
5200 feet, bottom	4.08		1.15
5700 feet, top	3.78		
5700 feet, bottom	4.22		
6200 feet, top	6.84		1.41
6200 feet, bottom	3.82		1.24
6280 feet, top		1.38	
6280 feet, bottom		1.60	
At face, top	4.16		1.94
At face, bottom	4.39		1.89
Behind bulkhead	8.70	9.16	

Air lock is 3,700 feet from the shaft.

The bulkhead is built across the tunnel at a distance of 6,513 feet from the shaft.

An iron tube, closed with a valve, passes through this bulkhead.

GAS PRESSURE ON STREET MAINS.

It is absolutely necessary in order to gain a correct idea of the gas pressures existing in this city, to have pressure registers located in the various sections of the city.

Pressure registers ought to be located as follows:

One near Gas Works No. 1, or at City Hall.

One near Gas Works No. 2, on Willson avenue.

One near junction of Willson and Broadway.

One near Fairmount street.

One near Works of People's Gas Light Co.

One in the 41st Ward.

One in the 42nd Ward.

At the present time we can gain a very slight idea of the actual pressure existing in the outlying parts of this city.

—With the number of pressure registers outlined above, a strictly accurate record could be kept of the pressures throughout the city and any unwarranted increase or decrease of pressure could easily be observed and remedied.

GAS METER INSPECTION.

Any consumer of gas, if he thinks that his gas meter does not register correctly, may have it tested.

The consumer must make written application to the Director of Public Works and accompany the application by an inspection fee of \$1. The meter is removed to the office of the Inspector of Gas, and the consumer is supplied with another meter during the time required for the inspection.

If the meter complained of, upon inspection, registers no greater volume of gas than actually passes it, 50 cents of the fee shall be paid to the gas company for the expense of disconnecting and resetting each meter.

If the meter registers a greater volume of gas than actually passes it, the inspection fee is returned to the person making the application. There is now on exhibition in this office an exhibition meter which shows clearly the mechanism of a gas meter.

Two meters have been tested during the year with the following results:

One was 2.7 per cent. fast, and the other was 3.87 per cent. slow.

Respectfully submitted,

CHAS. G. SNYDER,

Inspector of Gas.

DEPARTMENT

OF

POLICE.

Division of Police.

E. A. ABBOTT, Director of Police.

JOHN VANEK, Secretary.

GEORGE E. CORNER, Superintendent.

A. S. GATES, Deputy Superintendent.

M. F. MADIGAN,	}	.	Captains 1st District.
MICHAEL ENGLISH,			
E. K. HUTCHINSON,	.	.	Captain 2d District.
E. W. BRADLEY,	.	.	Captain 3d District.
W. S. ROWE,	.	.	Captain 4th District.
J. J. LOHRER,	.	.	Captain of Detectives.
E. B. NORTON,	.	.	Police Surgeon.

REPORT
OF THE
Director of the Department of Police
OF THE
CITY OF CLEVELAND.

CLEVELAND, O., January 1, 1899.

To the Honorable Robert E. McKisson, Mayor:

SIR:—In accordance with law, I have the honor to submit herewith my Annual Report of the Department of Police, including the Divisions of Police and Public Health, Markets, Hay Weighers and City Sealer, and the condition of the several funds and accounts for the year ending December 31, 1898.

The reports of the heads of the various divisions will give in detail the condition of such divisions.

The total expenditures of the Division of Police during the year, as shown in detail by the report of the Secretary of Police hereto appended, were \$395,352.71, of which sum \$368,577.49 was paid for salaries of the Force; \$5,000 for interest, \$849.67 for rent of telephones, \$607.39 for furniture and fixtures, \$4,183.33 for horses, feed and repair of wagons and horseshoing; \$1,240.89 for stationery and office supplies, \$1,384.89 for maintenance of patrol system, \$3,075.28 for fuel, \$3,233.23 for light, \$200.45 for water and ice, \$1,154.50 for miscellaneous supplies, \$2,424.40 for repairs, \$506.88 for grading, paving and taxes, and \$2,914.31 for all other expenditures of the Departments, as telegrams, secret service, equipments and other incidental expenses.

POLICE FUND.

RESOURCES.		
Balance January 1, 1898		\$ 3,724 67
General tax levy	\$ 214,593 19	
Liquor tax	144,280 23	
Cigarette tax	1,255 14	
Hay Weigher fees	293 75	
City Sealer fees	245 95	
Sales of old zincs and furniture	58 16	
Transfer from Market Fund.....	16,000 00	
Transfer from Interest Fund.....	5,000 00	
Transfer from Contingent Fund.....	8,500 00	
Total		390,226 42
Total resources.....		\$ 393,951 09
DISBURSEMENTS.		
Interest and rents	\$ 5,849 67	
Salaries of the force.....	368,577 49	
Furniture and fixtures	607 39	
Horses, wagons and harness.....	608 65	
Supplies and stationery.....	1,240 89	
Care of horses, feed, shoeing and repairs	3,574 68	
Fuel, light and water	6,508 96	
Miscellaneous supplies	1,154 50	
Repairs of buildings.....	2,424 40	
Patrol system maintenance.....	1,384 89	
Grading, paving and sewerage.....	506 98	
Total		392,438 40
Balance January 1, 1899.....		\$ 1,512 69

DEPARTMENT OF POLICE.

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POLICE COURT FUND.

RESOURCES.	Police Court.	Work-house.	
Balance January 1, 1898.....			\$ 3,522 28
Fines and costs collected in Police Court and at the Workhouse:			
January.....	\$ 1,319 50		
February.....	1,045 00	\$ 173 98	
March.....	1,584 20	84 15	
April.....	1,603 75	228 70	
May.....	1,814 95	120 50	
June.....	1,822 70	137 10	
July.....	1,907 40	39 55	
August.....	2,145 05	134 45	
September.....	1,983 45	224 98	
October.....	2,046 35	128 00	
November.....	1,668 65	61 40	
December.....	1,629 45	118 75	
	\$ 20,570 45	\$ 1,451 56	22,022 01
Total.....			\$ 25,544 29
DISBURSEMENTS.			
Salaries of Court officers.....	\$ 14,599 92		
Interim salaries.....	213 95		
Witness and juror fees.....	1,219 50		
Fees to Pension and Contingent Fund.....	6,244 95		
Furniture and fixtures.....	163 75		
Office supplies and stationery.....	1,433 47		
Transportation of prisoners.....	490 00		
Repairs.....	25 64		
Contingent expenses.....	167 60		
Repairs to building.....	65 75		
Total.....			24,664 53
Balance January 1, 1899.....			\$ 879 76

CONTINGENT FUND.

RESOURCES.		
Balance January 1, 1898.....		\$ 8,505 45
Marshal fees in Police Court, city cases	\$ 2,658 75	
Marshal fees in Police Court, State cases.....	685 10	
Marshal fees in Criminal Court.....	576 40	
Marshal fees in Workhouse, State cases.....	608 67	
		4,523 92
Total		\$ 13,029 37
DISBURSEMENTS.		
Advanced to Director of Police for secret service and contingent expenses.....	\$ 2,750 00	
To Abner F. Roundy, damages	200 00	
Costs of Court in above case.....	15 82	
Temporary transfer to Police Fund	8,500 00	
		11,465 82
Balance January 1, 1899		\$ 1,563 55

Grading, Paving, Sewering and Taxes.	Laundry Work.	Telegrams and Secret Service.	Livery.	Meals of Prisoners.	Equipments.	Incidentals.	Total.
\$.....	\$ 184 45	\$ 25 60	\$.....	\$ 325 37	\$ 3 00	\$ 101 92	\$ 4,394 73
.....	26 50	.....	.....	.....	.....	18 50	476 98
.....	41 08	.....	.....	.....	.....	19 98	625 84
.....	37 80	24 01	.....	.....	.....	6 79	551 68
36 08	46 50	.....	.....	.....	.....	19 02	611 57
343 29	23 82	2 95	.....	.....	.....	11 00	1,062 67
.....	24 75	.....	.....	4 66	.....	7 00	496 32
67 79	54 30	7 50	.....	.....	.....	35 05	1,687 87
.....	29 33	.....	.....	.....	.....	14 45	344 39
.....	22 58	.....	.....	2 50	.....	13 16	386 87
.....	29 00	.....	.....	.....	.....	11 80	389 52
.....	20 38	.....	.....	.....	.....	7 46	365 67
.....	9 00	.....	.....	.....	.....	2 80	1,924 00
25 05	9 00	.....	.....	.....	.....	.....	1,009 57
.....	9 00	.....	.....	.....	.....	5 20	831 92
34 67	6 27	.....	.....	.....	.....	3 00	815 59
.....	6 67	.....	.....	.....	.....	28	411 28
.....	.....	.....	.....	.....	.....	14 70	1,507 76
.....	.....	207 37	.....	.....	.....	10 47	416 88
.....	.....	8 15	.....	.....	214 38	1,210 86	3,484 16
.....	.....	.....	.....	.....	.....	.....	5,000 00
.....	.....	.....	.....	.....	.....	.....	368,577 49
\$ 506 88	\$ 580 43	\$ 270 58	\$.....	\$ 332 53	\$ 217 58	\$1,513 39	\$395,362 71

**EXPENDITURES PAID FROM THE DIFFERENT FUNDS
FOR POLICE PURPOSES.**

MONTHS.	Police Fund.	Contingent Fund.	Totals.
January.....	\$ 15,664 23	\$ 191 32	\$ 15,855 55
February	32,631 51	140 57	32,772 08
March	34,090 81	140 77	34,231 58
April	32,799 60	169 60	32,969 20
May	32,946 92	480 66	33,427 58
June..	32,758 80	408 25	33,167 05
July.....	32,281 46	305 06	32,586 52
August	32,030 71	145 06	32,175 77
September.....	34,434 44	285 53	34,719 97
October.....	32,328 71	207 90	32,536 61
November.....	31,600 13	204 90	31,805 03
December.....	48,871 08	234 69	49,105 77
Total	\$ 392,438 40	\$ 2,914 31	\$ 395,352 71

CLOTH ACCOUNT.

RESOURCES.		
Balance January 1st, 1898.....		\$ 646 63
Sold 525 15-16 yards of summer cloth.....	\$ 1,053 87	
" 221½ " doeskin	610 19	
" 227¾ " beaver.....	852 84	
" 35¾ " dress cloth.....	146 02	
" 60 black helmets.....	150 00	
" 236 white helmets	543 00	
" 64 4-9 yards of gold lace.....	16 65	
" 626 blue service stripes.....	50 08	
" 22 buttons	66	
		3,423 31
Total.....		\$ 4,069 94
DISBURSEMENTS.		
Paid for 504¾ yards summer cloth.....	889 41	
" 211 " doeskin.....	545 46	
" 260¾ " beaver.....	903 53	
" 30¾ " dress cloth.....	126 31	
" 60 black helmets.....	150 00	
" 269 white helmets.....	606 25	
" 21 gr. buttons.....	55 00	
" 60 yards gold lace.....	15 00	
" 500 blue service stripes.....	39 20	
" express charges.....	42 67	
Cloth free to officers	11 97	
Paid for books and stationery.....	20 22	
		3,404 02
Total.....		
Balance cash January 1st, 1899		\$ 665 92

CLOTH ACCOUNT—Concluded.

CLOTH ON HAND.		
1½ yards of summer cloth.....	\$ 3 50	
14½ " doeskin.....	40 57	
32½ " beaver.....	120 94	
13½ " dress cloth.....	58 83	
48 black helmets.....	120 00	
47 white helmets.....	108 10	
36 yards gold lace.....	9 00	
274 service stripes.....	21 92	
2½ gro. gr. large buttons.....	8 75	
5¼ " small buttons.....	10 50	
		\$ 502 11
Total in Cloth Fund January 1st, 1899.....		\$ 1,168 08

MARKET FUND.

RESOURCES.			
Balance January 1st, 1898.....			\$ 985 53
Market rents, premiums, etc.....		\$ 37,252 83	
Licenses.....		8,984 00	
Hav Weighers.....		2,019 00	
City Sealer.....		2,325 41	
Miscellaneous.....		75	50,531 80
Total.....			\$ 51,437 53
DISBURSEMENTS.			
MARKETS—Rents.....	\$ 45 00		
Salaries.....	8,400 00		
Furniture and fixtures.....	65 10		
Stationery and office supplies.....	83 19		
Fuel.....	73 75		
Lighting.....	2,854 74		
Sprinkling.....	918 17		
Miscellaneous supplies.....	134 12		
Repairs.....	286 40		
Contingent expenses.....	216 16		
Cleaning grounds.....	1,850 93		
Taxes, grading, etc.....	559 73		
Transfer to Police Fund.....	16,000 00		
Transfer to Street Fund.....	15,000 00		
Livery.....	300 00	46,787 29	
HAY WEAHERS:—Salaries.....	2,040 00		
Fuel.....	7 95		
Stationery.....	40 00		
Cleaning grounds.....	125 80	2,213 75	
CITY SEALER:—Salaries.....	2,100 00		
Stationery.....	8 85		
Livery.....	300 00		
Repair of scales.....	6 00	2,414 85	
Total expenses.....			51,415 89
Balance January 1st, 1899.....			\$ 21 63

HAY WEIGHERS.

Receipts and Disbursements in 1898.

RECEIPTS.		
Central hay scales.....	\$ 1,820 75	
Scale, corner Lorain and Harbor streets.....	311 00	
Scale, corner Pearl and Willey streets.....	95 00	
Scale at the 27th Ward.....	86 00	
Total.....		\$ 2,312 75
DISBURSEMENTS.		
Salaries of Weighers:		
Central hay scale weigher.....	\$ 900 00	
Central hay scale assistant.....	600 00	
Corner Lorain and Harbor street weigher.....	240 00	
Corner Pearl and Willey street weigher.....	180 00	
27th Ward weigher.....	120 00	
Fuel.....	7 95	
Stationery.....	40 00	
Cleaning grounds.....	125 80	
Total.....		2,213 75
Receipts over disbursements.....		\$ 99 00
Receipts deposited:		
To Market Fund.....	\$ 2,019 00	
To Police Fund.....	293 75	
Total.....		\$ 2,312 75

CITY SEALER.

Receipts and Disbursements in 1898.

RESOURCES.		
Total amount received for sealing weights and measures.....		\$ 2,571 36
DISBURSEMENTS.		
Salary of the City Sealer.....	\$ 1,500 00	
Salary of the Assistant City Sealer.....	600 00	
Horse and wagon for City Sealer.....	300 00	
Stationery.....	8 85	
Repair of scales.....	6 00	
Total.....		\$ 2,414 85
Receipts over disbursements.....		\$ 156 51
Receipts deposited:		
To Market Fund.....	\$ 2,325 41	
To Police Fund.....	245 95	
Total.....		\$ 2,571 36

POLICE FORCE.

On the first day of January, 1898, as appears from the last report, the Police Force of the city, including all other employes of the Department, consisted of 1 Superintendent, 1 Deputy Superintendent, 1 Secretary, 1 Police Surgeon, 6 Captains, 24 Lieutenants, 9 Detectives, 17 Sergeants, 295 Patrolmen, 6 Janitors, 2 Firemen, 1 Operator, 4 Matrons, 1 Lineman and 2 Hostlers and 1 Messenger; total, 372.

The total number of men constituting the Police Force at date is 355, and all other employes of the Department, 17; total 372, viz:

- 1 Superintendent.
- 1 Deputy Superintendent.
- 1 Secretary.
- 1 Police Surgeon.
- 6 Captains.
- 24 Lieutenants.
- 9 Detectives.
- 17 Sergeants.
- 295 Patrolmen.
- 6 Janitors.
- 2 Firemen.
- 1 Operator.
- 1 Lineman.
- 4 Matrons.
- 2 Hostlers.
- 1 Messenger.

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Of the 295 Patrolmen, 1 is detailed as Superintendent of Patrol Service, 2 as Operators and 1 as Lineman, and two vacancies, which have not been filled.

DEPARTMENT OF POLICE.

This Force and Officers are distributed for duty in the different places and Precincts throughout the city as follows:

DIRECTOR OF POLICE, ROOM 119, CITY HALL.

Location.	OFFICERS.										EMPLOYEES.								
	Superintendent.	Deputy Superintendent.	Secretary.	Police Surgeon.	Captains.	Detective.	Lieutenants.	Sergeants.	Patrolmen.	Total.	Janitors.	Firemen.	Operator.	Lineman.	Hostlers.	Matrons.	Messenger.	Total.	
1st Precinct	1	1	.....	.....	3	9	2	3	73	92	4	2	.....	.....	.....	3	1	10
2nd " 	1	2	18	21	.....	.....	.....	.....	.....	.....	.....	.....
3rd " 	2	1	18	21	1	.....	.....	.....	.....	.....	.....	1	
4th " 	1	.....	2	1	18	23	.....	.....	.....	.....	.....	.....	.....	.....
5th " 	2	1	15	18	.....	.....	.....	.....	.....	.....	.....	.....
6th " 	1	.....	2	1	15	19	.....	.....	.....	.....	.....	.....	.....	.....
7th " 	2	1	12	15	.....	.....	.....	.....	.....	.....	.....	.....
8th " 	1	.....	2	2	32	37	1	.....	.....	.....	.....	1	.....	2	
9th " 	2	1	18	21	.....	.....	.....	.....	.....	.....	.....	.....
10th " 	2	1	15	18	.....	.....	.....	.....	.....	.....	.....	.....
11th " 	2	1	18	21	.....	.....	.....	.....	.....	.....	.....	.....
12th " 	2	1	9	12	.....	.....	.....	.....	.....	.....	.....	.....
Patrol Stations:																			
No. 1	6	6	.....	.....	.....	.....	2	.....	.....	2	
No. 2	6	6	.....	.....	.....	.....	.....	.....	.....	.....
No. 3	6	6	.....	.....	.....	.....	.....	.....	.....	.....
No. 4	6	6	.....	.....	.....	.....	.....	.....	.....	.....
No. 5	6	6	.....	.....	.....	.....	.....	.....	.....	.....
Patrol operators..	4	4	.....	.....	1	1	.....	.....	.....	2	
Headquarters.....	1	1	1	1	4	
<hr/>																			
Total.....	1	1	1	1	6	9	24	17	295	355	6	2	1	1	2	4	1	17	

DEPARTMENT OF POLICE.

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THE FORCE ON DECEMBER 31, 1898.

Rank.	Name.	Nativity.	First Entry into Service under Metropolitan Law.
Superintendent.....	George E. Corner.....	United States.....	April 20, 1880.
Deputy Superintendent	A. S. Gates.....	United States....	November 13, 1871.
Secretary	John Vanek	Bohemia	July 1, 1887.
Surgeon	F. B. Norton	United States.....	September 13, 1887.
Captain	E. K. Hutchinson	United States.....	April 12, 1876.
"	M. F. Madigan	Ireland	May 1, 1866.
"	M. English	Ireland	April 8, 1871.
"	Ed W. Bradley	United States.....	April 29, 1875.
"	W. S. Rowe	United States	May 18, 1880.
"	J. J. Lohrer	Germany	May 1, 1866.
Lieutenant	John Schriber	United States.....	April 6, 1870.
"	S. Kushman	United States.....	April 25, 1867.
"	Thomas Thompson	England	May 15, 1867.
"	Josiah Johnson.....	United States.....	July 19, 1871.
"	John Dunn	United States.....	December 30, 1870.
"	George Kadel.....	Germany	April 29, 1870.
"	George W. Broadwell	United States	April 14, 1877.
"	P. A. Searles	United States	November 2, 1871.
"	John Burns.....	Ireland	May 8, 1868.
"	Charles Tressel.....	Germany	November 29, 1869.
"	John O'Laughlin	Ireland.....	February 12, 1873.
"	Wm. Jenkins	England	January 20, 1882.
"	John Schmunk	United States.....	January 15, 1881.
"	Fred Kohler.....	United States	July 16, 1889.
"	J. W. Varner	United States.....	January 21, 1878.
"	Hugh Masterson.....	United States.....	August 7, 1883.
"	Silas Pierce....	United States	April 22, 1886.
"	N. A. Shattuck	United States.....	July 16, 1889.
"	H. T. Felhaber	Germany	April 6, 1877.
"	M. F. Wood	United States.....	May 20, 1877.
"	C. E. Parker.....	United States	December 28, 1882.
"	August Brandt	Germany	April 12, 1886.
"	Fred Doering	United States.....	March 6, 1888.
"	M. M. McElhanev	United States	May 4, 1886.

THE FORCE ON DECEMBER 31, 1898—Continued.

Rank.	Name.	Nativity.	First Entry into Service under Metropolitan Law.
Detective	John Reeves.....	Ireland	May 13, 1875.
"	A. McMillan	Canada	February 23, 1872.
"	John F. Sprosty	Bohemia	November 6, 1872.
"	James Doran	Canada	April 15, 1884.
"	L. A. DeCelle.....	United States	March 1, 1881.
"	Chas. O. Klane	United States.....	May 2, 1882.
"	Wm. Watt.....	Scotland.....	May 18, 1886.
"	D. G. Stanton	United States	January 7, 1892.
"	Alfred Walker.....	England	June 29, 1886.
Sergeant.....	John Buechler.....	Germany	May 1, 1872.
"	M. J. Regan	Ireland	June 6, 1882.
"	J. J. Doyle	Canada	June 6, 1882.
"	Ed Corrigan	Ireland	August 9, 1887.
"	E. F. Washington	United States.....	August 7, 1883.
"	James Cullen.....	Ireland	August 7, 1883.
"	Thomas Commerford	Ireland	December 31, 1886.
"	John Rowlands.....	United States.....	January 7, 1892.
"	Geo. A. Kadel	United States.....	June 3, 1886.
"	J. M. Brooks	Germany	May 8, 1880.
"	Fred Fischer	Germany	December 20, 1887.
"	Herman Prange	Germany	January 19, 1886.
"	Wm. Foulks.....	United States.....	January 7, 1892.
"	John Anderson, Jr.....	United States.....	January 13, 1887.
"	Chas. N. Lyle	Canada	May 8, 1888.
"	John Reiber.....	United States.....	January 7, 1892.
"	Thos. Madden.....	United States.....	July 16, 1889.
Patrolman No. 1.....	Jerry Murphy	United States	April 15, 1890.
" 2.....	P. F. Reed.....	United States	May 3, 1897.
" 3.....	Joseph Stadler.....	Germany	September 16, 1876.
" 4.....	Henry Kiel	Germany	July 16, 1892.
" 5.....	J. W. Clark	United States.....	May 20, 1884.
" 6.....	Charles S. Smith	United States.....	January 28, 1897.
" 7.....	W. C. Dettman	Germany	January 1, 1896.
" 8.....	Geo. B. Erwin	United States.....	April 19, 1881.

THE FORCE ON DECEMBER 31, 1898—Continued.

Rank.	Name.	Nativity.	First Entry into Service under Metropolitan Law.
Patrolman No. 9.....	Charles Reppenhagen	Germany	January 7, 1892.
" 10.....	Philip Siegrist.....	Germany	May 8, 1888.
" 11.....	M. Ostermeyer.....	Germany	August 7, 1867.
" 12.....	Philip Mooney	United States.....	December 16, 1898.
" 13.....	Leo J. Kolaszewski.....	Poland	May 8, 1888.
" 14.....	Wm. D. Jones.....	Wales	June 18, 1889.
" 15.....	Fred C. Weber.....	Germany	May 1, 1898.
" 16.....	John Veigel	United States.....	December 27, 1884.
" 17.....	John T. Shibley	Canada	January 1, 1896.
" 18.....	Charles W. Sterling	United States.....	January 1, 1896.
" 19.....	W. B. Clendenin.....	United States.....	October 1, 1897.
" 20.....	Michael Fergus.....	United States.....	September 11, 1888.
" 21.....	E. C. Moon	United States.....	July 10, 1898.
" 22.....	Joseph O'Brien	Ireland	December 28, 1882.
" 23.....	Wm. Mylechrairie	Isle of Man.....	February 23, 1872.
" 24.....	Frank Grime	United States.....	February 12, 1891.
" 25.....	Henry Jacobson.....	Germany	May 8, 1888.
" 26.....	Henry C. Brown.....	United States.....	May 16, 1896.
" 27.....	P. J. Neary	Ireland	April 17, 1888.
" 28.....	E. Hathaway	United States.....	April 20, 1872.
" 29.....	James Hanley.....	Ireland	April 22, 1896.
" 30.....	W. N. Sickels	United States.....	December 1, 1897.
" 31.....	Thomas J. Carlen	United States.....	March 9, 1892.
" 32.....	Jeffrey Gibbons	United States.....	January 16, 1894.
" 33.....	W. T. Schempp	United States.....	July 11, 1896.
" 34.....	Matthew Mareah	Bohemia.....	January 13, 1885.
" 35.....	W. R. Hayman	England	May 1, 1888.
" 36.....	J. W. Morgan	Wales	February 12, 1891.
" 37.....	Mathew Conway.....	United States.....	May 7, 1888.
" 38.....	Jacob Fix	United States.....	January 5, 1897.
" 39.....	John Cummings	Canada	March 25, 1889.
" 40.....	Robert Madison.....	United States	May 3, 1897.
" 41.....	G. H. Fechner.....	United States.....	January 16, 1894.
" 42.....	E. Durchschlag	United States.....	December 7, 1896.

THE FORCE ON DECEMBER 31, 1898—Continued.

Rank.	Name.	Nativity.	First Entry into Service under Metropolitan Law.
Patrolman No. 43.....	Charles J. Folts	United States.....	February 1, 1898.
" 44.....	Wm. Reiser	United States.....	May 3, 1897.
" 45.....	Wm. M. Tucker	United States.....	June 3, 1881.
" 46.....	Frank G. Ganss	United States.....	April 6, 1895.
" 47.....	Samuel Ruddock	Ireland	June 16, 1892.
" 48.....	Charles Saunders.....	England.....	January 19, 1886.
" 49.....	Joseph Ruzicka	Bohemia	September 15, 1892.
" 50.....	Daniel Mack	Ireland	October 17, 1882.
" 51.....	James Trojan.....	Bohemia	July 16, 1892.
" 52.....	Fred Mettermacher	United States.....	September 28, 1896.
" 53.....	Thos Cleary	Ireland	April 6, 1892.
" 54.....	A. A. Heimberger.....	United States.....	July 22, 1893.
" 55.....	Thos. Martinec	Bohemia.....	October 17, 1892.
" 56.....	Charles Sanders	Germany	February 18, 1887.
" 57.....	Edward L. Banks	United States.....	December 1, 1895.
" 58.....	Julius Weber	Germany	October 1, 1897.
" 59.....	Vacancy .....	.....	.....
" 60.....	P. J. Carbeck.....	United States.....	August 1, 1892.
" 61.....	John C. Kampfe.....	United States.....	November 20, 1893.
" 62.....	Warren O Quayle.....	United States.....	July 10, 1893.
" 63.....	F. M. Batchelor	United States.....	October 5, 1898.
" 64.....	H. W. Motter	United States.....	May 14, 1884.
" 65.....	John Sprankle	Germany.....	November 28, 1874.
" 66.....	August Sommer.....	Germany.....	December 24, 1883.
" 67.....	Leonard M. Weeden.....	United States.....	July 22, 1897.
" 68.....	John Quinn	Ireland	May 16, 1871.
" 69.....	Fred Wagner	United States.....	December 28, 1892.
" 70.....	J. H. Koehler	United States.....	May 4, 1886.
" 71.....	Jay Cole	United States.....	July 16, 1892.
" 72.....	Henry Carroll	Ireland.....	June 15, 1883.
" 73.....	A. E. Lacey.....	United States.....	March 9, 1894.
" 74.....	T. H. Bidlingmeyer	United States.....	March 6, 1888.
" 75.....	F. H. Brooks	United States.....	July 22, 1884.
" 76.....	W. Chapman	United States.....	January 19, 1886.

THE FORCE ON DECEMBER 31, 1898—Continued.

Rank.	Name.	Nativity.	First Entry into Service under Metropolitan Law.
Patrolman No. 77.....	George A. Strief.....	United States.....	January 7, 1892.
" 78.....	Martin Reddy	Ireland.....	September 18, 1883.
" 79.....	Patrick Hines	United States.....	February 26, 1889.
" 80.....	C. B. Lee	United States.....	February 12, 1891.
" 81.....	James J. Gill	Ireland.....	January 22, 1896.
" 82.....	John Ginnelly	Ireland.....	February 12, 1891.
" 83.....	Joseph Curphy	United States.....	January 7, 1892.
" 84.....	F. B. Eustace.....	United States.....	April 19, 1875.
" 85.....	Walter P. Carey.....	United States.....	January 5, 1897.
" 86.....	Paul Weis	Germany.....	March 21, 1896.
" 87.....	J. Horasovsky	Bohemia.....	July 19, 1894.
" 88.....	Daniel Cantillon	Ireland.....	January 29, 1875.
" 89.....	John Britton	Ireland.....	December 24, 1883.
" 90.....	L. J. Pillars	United States.....	July 16, 1892.
" 91.....	Frank L. Blackmur	United States.....	January 28, 1892.
" 92.....	J. C. Sommer	United States.....	May 1, 1896.
" 93.....	J. H. Robinson	United States.....	July 10, 1893.
" 94.....	Patrick Kennedy	Ireland	June 10, 1875.
" 95.....	Henry Kramer	United States.....	December 24, 1883.
" 96.....	Julius Spies	England.....	October 1, 1896.
" 97.....	Henry Seibel	United States.....	February 5, 1873.
" 98.....	Joseph Ralph.....	Ireland	May 8, 1888.
" 99.....	Chas. L. Seelye	United States.....	January 5, 1897.
" 100.....	Geo. J. Moore.....	United States.....	June 1, 1897.
" 101.....	Burton Holcomb	United States.....	October 8, 1889.
" 102.....	Frank McDonnell.....	United States.....	October 7, 1884.
" 103.....	Frank Kulas	Bohemia.....	May 16, 1878.
" 104.....	Frank E. King	United States.....	February 6, 1896.
" 105.....	Charles McMasters	United States.....	November 27, 1878.
" 106.....	Harry Morgan.....	United States.....	February 6, 1896.
" 107.....	Charles Dangler	United States.....	April 9, 1877.
" 108.....	Lewis C. Ruggles	United States.....	January 7, 1892.
" 109.....	T. J. Gallagher	Ireland	June 5, 1888.
" 110.....	John F. Chaffin.....	United States.....	May 3, 1897.

THE FORCE ON DECEMBER 31, 1898—Continued.

Rank.	Name.	Nativity.	First Entry into Service under Metropolitan Law.
Patrolman No. 111.....	Patrick Farragher.....	Ireland	February 26, 1889.
" 112.....	John J. McTigue.....	United States.....	October 1, 1892.
" 113.....	Stewart Hart.....	Canada	November 13, 1883.
" 114.....	John McGraw	Ireland	April 6, 1877.
" 115.....	Wm. O'Brien	Ireland	January 13, 1873.
" 116.....	Ernst A. Blesdale.....	United States.....	September 18, 1888.
" 117.....	W. C. Davis	Wales.....	December 1, 1897.
" 118.....	Philip Heege	Germany	February 5, 1873.
" 119.....	James H. Stedman	Canada	July 1, 1895.
" 120.....	Henry A. Kerr	United States.....	July 16, 1892.
" 121.....	M. H. Stofer.....	United States.....	February 5, 1873.
" 122.....	Geo. Kaestle.....	United States.....	February 6, 1896.
" 123.....	Wm. Schnearline	United States.....	November 26, 1874.
" 124.....	Geo. W. Immel.....	United States.....	July 16, 1892.
" 125.....	D. J. Heffron	United States.....	July 1, 1894.
" 126.....	Charles Schroder	United States.....	November 27, 1878.
" 127.....	Austin G. Peschman.....	United States.....	November 16, 1897.
" 128.....	M. Cuneen	Ireland	July 3, 1883.
" 129.....	Thomas Mylett	Ireland	January 7, 1892.
" 130.....	John McCabe	Ireland	July 2, 1883.
" 131.....	Ralph Lehman	Germany	April 1, 1894.
" 132.....	L. E. Bouker	United States.....	February 12, 1891.
" 133.....	Henry Hageman.....	United States.....	July 13, 1896.
" 134.....	E. R. Bennett	United States.....	November 7, 1882.
" 135.....	John Carroll.....	Ireland	November 7, 1882.
" 136.....	J. A. Abernethy.....	United States.....	July 1, 1894.
" 137.....	John Gavin.....	Ireland	November 3, 1885.
" 138.....	Parker Hare.....	United States.....	November 7, 1882.
" 139.....	Wm. H. Scott	United States.....	February 7, 1895.
" 140.....	Alfred Smith	England	July 10, 1893.
" 141.....	Geo. J. Keidel.....	United States.....	July 10, 1883.
" 142.....	Michael O'Hara	United States.....	August 7, 1893.
" 143.....	Joseph Whittaker	United States.....	November 13, 1883.
" 144.....	John J. Connell.....	United States.....	December 20, 1887.

THE FORCE ON DECEMBER 31, 1898—Continued.

Rank.	Name.	Nativity.	First Entry into Service under Metropolitan Law.
Patrolman No. 145.....	S. S. Minor	United States.....	August 7, 1883.
" 146.....	H. L. Wilmore	United States.....	January 7, 1892.
" 147.....	C. J. Creter.....	Germany	August 7, 1883.
" 148.....	W. W. Mackey	United States.....	January 7, 1892.
" 149.....	Patrick Ruddy	Ireland	August 7, 1883.
" 150.....	Leonard Cumiskey.....	United States.....	February 26, 1889.
" 151.....	James E. Harrington.....	United States.....	January 23, 1895.
" 152.....	Wm. R. Wilson	Canada	January 7, 1892.
" 153.....	F. E. Brown	United States.....	February 21, 1888.
" 154.....	W. T. Mehan	United States.....	December 1, 1894.
" 155.....	Herman C. Kritzel	United States.....	May 3, 1897.
" 156.....	Carl A. DeHeek	United States.....	October 20, 1897.
" 157.....	Chas. L. Weisbarth	United States.....	March 20, 1888.
" 158.....	Richard Barrow, Jr	United States.....	February 18, 1887.
" 159.....	Wm. Fitzgerald	United States.....	August 7, 1883.
" 160.....	John E. Gallagher.....	United States.....	July 17, 1888.
" 161.....	August Wedig.....	Germany	August 7, 1883.
" 162.....	Harry S. Dunbar	United States.....	February 22, 1896.
" 163.....	John Noonan	Ireland	October 3, 1894.
" 164.....	A. McKnight	United States..	August 7, 1883.
" 165.....	James Jirele	Bohemia	January 16, 1894.
" 166.....	Thomas Patterson.....	Canada ..	January 5, 1897.
" 167.....	Joseph Sweeney	Ireland	August 21, 1883.
" 168.....	Kinsey Fife.....	United States...	June 14, 1887.
" 169.....	Albert Hileman	United States.....	September 28, 1896.
" 170.....	F. B. Sanford	United States.....	December 2, 1892.
" 171.....	M. K. Cary	United States.....	October 22, 1888.
" 172.....	Frank V. Bash	Poland	June 21, 1887.
" 173.....	M. Masterson	Ireland	January 11, 1887.
" 174.....	C. L. Meacham	United States.....	January 11, 1887.
" 175.....	John Karch.....	United States.....	January 18, 1896.
" 176.....	H. J. Simpson.....	United States.....	February 5, 1889.
" 177.....	Alfred Malley.....	Ireland	January 7, 1892.
" 178.....	John Shipp	England	December 2, 1892.

THE FORCE ON DECEMBER 31, 1898—Continued.

Rank.	Name.	Nativity.	First Entry into Service under Metropolitan Law.
Patrolman No. 179.	Win. McAleer	United States.....	March 22, 1887.
" 180.	R. C. McDonnell	United States.....	March 15, 1887.
" 181.	Frank A. Kelly.....	United States.....	March 15, 1887.
" 182.	Thomas W. Whalen	United States	June 4, 1889.
" 183.	James Hilliard	Ireland	February 1, 1889.
" 184.	C. A. DeHondt	United States.....	February 1, 1889.
" 185.	Miles Moulton	United States	February 1, 1889.
" 186.	Thomas J. Hogan	Ireland	February 1, 1889.
" 187.	R. Manning	United States.....	August 1, 1893.
" 188.	D. D. Seely	United States.....	February 1, 1889.
" 189.	J. E. Wade.....	United States.....	February 1, 1889.
" 190.	Joseph C. Kaestle	United States.....	December 2, 1892.
" 191.	M. J. Howlett.....	United States.....	February 1, 1889.
" 192.	Wm. C. Sadler.....	United States.....	January 7, 1892.
" 193.	James Collins	United States.....	February 1, 1889.
" 194.	Otto Jierle	United States	February 1, 1889.
" 195.	Thomas McGinty	United States.....	February 1, 1889.
" 196.	Fred Winchester	United States	February 1, 1889.
" 197.	Roland McReynolds.....	United States.....	January 7, 1892.
" 198.	N. I. Engelhart.....	Germany	February 1, 1889.
" 199.	T. J. Comerford	United States.....	February 1, 1889.
" 200.	E. L. Potts	United States.....	February 1, 1889.
" 201.	Rush J. Douglass.....	United States.....	January 26, 1892.
" 202.	H. A. Gerow.....	Canada	February 1, 1889.
" 203.	James Meehan	England	July 16, 1889.
" 204.	Patrick Connors	England	July 16, 1889.
" 205.	Ephraim Brown.....	United States.....	July 16, 1889.
" 206.	Myron S. Brown.....	United States.....	January 7, 1892.
" 207.	Wm. Madigan.....	United States.....	May 3, 1897.
" 208.	Wm. J. Thorpe	United States	July 16, 1889.
" 209.	F. J. Moore	Ireland	July 16, 1889.
" 210.	Edward E. Welch	United States.....	July 17, 1896.
" 211.	Michael Connors.....	United States.....	January 7, 1892.
" 212.	Albert Ritzl	United States.....	January 5, 1897.

THE FORCE ON DECEMBER 31, 1898—Continued.

Rank.	Name.	Nativity.	First Entry into Service under Metropolitan Law.
Patrolman No. 213.....	Jacob Burghart.....	United States.....	July 16, 1889.
" 214.....	M. Fitzgerald.....	United States.....	July 16, 1889.
" 215.....	John J. Richards.....	United States.....	July 16, 1889.
" 216.....	P. J. Mylett.....	Ireland.....	July 16, 1889.
" 217.....	Frank W. Smith.....	United States.....	July 1, 1895.
" 218.....	Geo. W. Carey.....	United States.....	July 16, 1889.
" 219.....	James J. Martin.....	United States.....	July 16, 1889.
" 220.....	John E. Jones.....	United States.....	July 16, 1889.
" 221.....	Michael Gallagher.....	Ireland.....	July 16, 1889.
" 222.....	Peter E. Hill.....	United States.....	January 7, 1892.
" 223.....	J. H. Kleinman.....	United States.....	July 16, 1889.
" 224.....	J. E. Gannon.....	United States.....	July 16, 1889.
" 225.....	Albert Isaac.....	Canada.....	July 16, 1889.
" 226.....	Martin B. Bruder.....	Ireland.....	January 7, 1892.
" 227.....	W. H. Mooney.....	England.....	July 16, 1889.
" 228.....	J. M. Farr.....	United States.....	September 3, 1889.
" 229.....	Joseph Kilbane.....	Ireland.....	July 16, 1889.
" 230.....	Fred'k L. Schlegel.....	United States.....	March 18, 1895.
" 231.....	Vacancy.....	.....	.....
" 232.....	Frank G. Wood.....	United States.....	January 18, 1898.
" 233.....	Wm. O'Laughlin.....	United States.....	July 16, 1889.
" 234.....	Michael Gilbride.....	United States.....	July 16, 1889.
" 235.....	Wm. Bennett.....	Ireland.....	July 16, 1889.
" 236.....	M. J. Dempsey.....	Ireland.....	July 16, 1889.
" 237.....	E. J. Hannan.....	United States.....	July 16, 1889.
" 238.....	Frank Hoenig.....	United States.....	July 16, 1889.
" 239.....	Peter Regan.....	Ireland.....	July 16, 1889.
" 240.....	E. W. Boulton.....	United States.....	July 16, 1889.
" 241.....	J. M. Morgan.....	United States.....	July 16, 1889.
" 242.....	Edward Bayton.....	England.....	July 16, 1889.
" 243.....	Stephen Murphy.....	United States.....	January 23, 1895.
" 244.....	Evan Corns.....	Wales.....	July 16, 1889.
" 245.....	Martin Fitcher, Jr.....	United States.....	May 3, 1897.
" 246.....	Wm. Guenther.....	United States.....	July 16, 1889.

THE FORCE ON DECEMBER 31, 1898—Continued.

Rank.	Name.	Nativity.	First Entry into Service under Metropolitan Law.
Patrolman No. 247.....	Charles H. Durfy.....	United States.....	July 16, 1889.
" 248.....	Luke Delaney.....	United States.....	January 7, 1892.
" 249.....	Maurice Donahue.....	United States.....	May 6, 1892.
" 250.....	Chas. Shafranek.....	Bohemia.....	July 24, 1893.
" 251.....	George Haldane.....	Scotland.....	March 25, 1893.
" 252.....	Chas. Hawkins.....	United States.....	July 24, 1893.
" 253.....	George M. Wolke.....	United States.....	July 11, 1896.
" 254.....	Wm. C. Bernsee.....	United States.....	July 11, 1896.
" 255.....	H. T. Fisher.....	England.....	July 11, 1896.
" 256.....	Wm. G. Barrows.....	United States.....	July 11, 1896.
" 257.....	John F. Jockels.....	United States.....	July 11, 1896.
" 258.....	J. T. Saunders.....	United States.....	July 11, 1896.
" 259.....	Louis W. Heid.....	United States.....	July 11, 1896.
" 260.....	John F. Keller.....	United States.....	July 11, 1896.
" 261.....	J. A. Conrad.....	United States.....	July 11, 1897.
" 262.....	D. J. Ross.....	Canada.....	July 11, 1896.
" 263.....	Wm. H. Mackey.....	United States.....	July 11, 1896.
" 264.....	Charles H. Frary.....	United States.....	July 11, 1896.
" 265.....	George C. Huberty.....	United States.....	July 13, 1896.
" 266.....	Joseph Marech.....	United States.....	July 11, 1896.
" 267.....	Arthur Hopcraft.....	England.....	July 11, 1896.
" 268.....	Wm. L. Chappell.....	United States.....	July 11, 1896.
" 269.....	Geo. C. Heideloff.....	United States.....	July 11, 1896.
" 270.....	Edward Hennie.....	United States.....	July 11, 1896.
" 271.....	George McNab.....	Scotland.....	July 11, 1896.
" 272.....	Albert R. Hinckley.....	United States.....	July 11, 1896.
" 273.....	George E. Kent.....	United States.....	July 11, 1896.
" 274.....	L. M. Badger.....	United States.....	July 11, 1896.
" 275.....	James Bartunek.....	United States.....	July 11, 1896.
" 276.....	Frank E. Texler.....	United States.....	January 5, 1897.
" 277.....	J. C. Kniewaser.....	United States.....	November 16, 1897.
" 278.....	Ira L. Allen.....	United States.....	January 5, 1897.
" 279.....	Wm. F. Beyer.....	United States.....	January 5, 1897.
" 280.....	Charles Plues.....	United States.....	January 5, 1897.

DEPARTMENT OF POLICE.

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THE FORCE ON DECEMBER 31, 1898—Concluded.

Rank.	Name.	Nativity.	First Entry into Service under Metropolitan Law.
Patrolman No. 281.....	John P. Budinger	United States.....	January 5, 1897.
" 282.....	Jacob Graul	United States.....	January 5, 1897.
" 283.....	Thos. McNeil.....	United States.....	January 5, 1899.
" 284.....	Arthur C. Sager	United States.....	January 5, 1897.
" 285.....	John M. Mehringer.....	United States.....	January 5, 1887.
" 286.....	Joseph Bernhard	United States.....	January 5, 1897.
" 287.....	Lynnus G. Corlett.....	United States.....	January 5, 1897.
" 288.....	Wm. Fischer	Germany	January 5, 1897.
" 289.....	Mark T. McGorray.....	United States.....	January 5, 1897.
" 290.....	Henry G. Coath	United States.....	June 11, 1897.
" 291.....	August Senkbeil.....	Germany	January 5, 1897.
" 292.....	Wm. Smith.....	United States.....	October 1, 1897.
" 293.....	Wm. Silberg.....	United States.....	January 5, 1897.
" 294.....	Fred J. Lahl.....	United States.....	January 5, 1897.
" 295.....	Louis Sebelin.....	United States.....	January 5, 1897.

NATIONALITY OF MEMBERS OF THE POLICE FORCE.

BIRTH PLACE.	
United States.....	229
Ireland.....	48
Germany.....	29
England.....	14
Canada.....	13
Bohemia.....	10
Scotland.....	3
Poland.....	2
Isle of Man.....	1
Wales.....	4
<hr/>	
Total.....	353

EMPLOYES OF THE DEPARTMENT.

Rank.	Name.	Appointed.	Remarks.
Operator.....	E. H. McLean	Aug. 1, 1883	Patrol service.
Janitor.....	Thos. A. Stephens.....	April 24, 1896	Central Station.
Janitor	D. E. O'Leary	April 15, 1897	Central Station.
Janitor.....	Henry Miller.....	Nov. 13, 1896.....	Central Station
Janitor	John H. Cisco.....	May 15, 1895	Third Precinct Station.
Janitor	Frank Rosinsky.....	Aug. 1, 1891.....	Eighth Precinct Station.
Janitor.....	J. L. Dilno.....	Nov. 3, 1897.....	Central Station.
Fireman	David Honeywell.....	May 1, 1895	Central Police Station.
Fireman	Frank Cohen.....	May 13, 1895	Central Police Station.
Matron.....	Louise Love	March 23, 1897...	Central Police Station.
Matron.....	Harriet Garfield.....	March 1, 1894.....	Central Police Station.
Matron.....	Kate M. Kelley.....	Feb. 1, 1895.....	Central Police Station.
Matron.....	Sarah J. Whitaker.....	Feb. 1, 1895.....	Central Police Station.
Hostler.....	Edward Daw	Dec. 16, 1896	Patrol Station No. 1.
Hostler	M. Schneider	May 18, 1897.....	Patrol Station No. 1.
Lineman.....	Frank Miner.....	April 14, 1897	Patrol service.
Messenger	L. S. Besena	Oct. 13, 1897.....	Police Court.

PROMOTIONS OF MEMBERS OF THE FORCE DURING
THE YEAR.

Rank.	Name.	Promoted to	Date.
Sergeant.....	Alfred Walker.....	Lieutenant.....	January 1, 1898.
Patrolman No. 232.....	Wm. L. Foulks.....	Sergeant.....	January 1, 1898.
Sergeant.....	August Brandt.....	Lieutenant.....	January 16, 1898.
Patrolman.....	D. G. Stanton.....	Sergeant.....	January 16, 1898.
Patrolman No. 175.....	John Anderson, Jr.....	Sergeant.....	January 17, 1898.
Sergeant.....	Fred. Doering.....	Lieutenant.....	February 1, 1898.
Patrolman No. 43.....	Chas. N. Lyle.....	Sergeant.....	February 1, 1898.
Patrolman No. 63.....	John Reiber.....	Sergeant.....	October 1, 1898.
Sergeant.....	M. M. McElhanev.....	Lieutenant.....	December 16, 1898.
Patrolman No. 231.....	Thos. Madden.....	Sergeant.....	December 16, 1898.

CHANGES DURING THE YEAR.

Lieutenant, Alfred Walker, detailed for detective duty
January 1, 1898.

Detective, C. E. Parker, returned to regular duty as
Lieutenant, January 1, 1898.

Sergeant, D. G. Stanton, detailed for detective duty
January 1, 1898.

RESIGNATIONS OF MEMBERS OF THE FORCE AND
EMPLOYES DURING THE YEAR.

Rank.	Name.	Date.
Patrolman No. 12.....	F. C. Patmore.....	November 26, 1898.

DISMISSED FROM THE FORCE DURING THE YEAR.

Rank.	Name.	Date.
Patrolman No. 162.....	Frank Purma.....	February 19, 1896.

OFFICERS PLACED ON THE PENSION ROLL.

Rank.	Name.	Appointed.	Retired.
Lieutenant	Patrick Corkill.....	April 13, 1869.....	January 1, 1898.
Lieutenant	E. T. Granger	September 7, 1871.....	January 10, 1898.
Lieutenant	Jacob Stein.....	July 18, 1866.....	February 1, 1898.
Patrolman No. 92.....	M. F. Silsby	March 26, 1873.....	April 1, 1898.
Patrolman No. 15.....	C. C. Thomas	September 21, 1872.....	April 16, 1898.
Lieutenant	Conrad Koch.....	May 30, 1866.....	December 16, 1898.

OFFICERS DIED DURING THE YEAR.

Rank.	Name.	Appointed.	Died.
Sergeant.....	Wm. Schneider.....	June 3, 1881.....	July 11, 1898.
Patrolman No. 96.....	James Reddy.....	June 6, 1894.....	September 14, 1898.
Patrolman No. 59.....	Joseph F. Spurney.....	January 13, 1897.....	December 12, 1898.

DEPARTMENT OF POLICE.

APPOINTMENTS OF MEMBERS OF THE FORCE DURING THE YEAR.

Name.	Date.	Rank.	No.	Age.	Nativity.	Former Occupation.	Social Condition.
Frank G. Wood.....	January 18, 1898.....	Patrolman.....	232	29	United States.....	Butcher.....	Married.
John Karch.....	January 18, 1898.....	Patrolman.....	175	33	United States.....	Miner.....	Married.
Chas. J. Foltz.....	February 1, 1898.....	Patrolman.....	43	33	United States.....	Butcher.....	Married.
Harry S. Dunbar.....	February 22, 1898.....	Patrolman.....	162	32	United States.....	Motorman.....	Married.
J. C. Sommer.....	May 1, 1898.....	Patrolman.....	92	28	United States.....	St. Engineer.....	Single.
Fred. C. Weber.....	May 1, 1898.....	Patrolman.....	15	29	Germany.....	Roofer.....	Single.
Frank M. Batohelor.....	October 5, 1898.....	Patrolman.....	63	25	United States.....	Lathe hand.....	Single.
Julius Spies.....	October 5, 1898.....	Patrolman.....	96	27	United States.....	Barber.....	Single.
Philip Mooney.....	December 16, 1898.....	Patrolman.....	12	30	United States.....	Heater.....	Married.

**SALARIES OF THE MEMBERS OF THE POLICE
DEPARTMENT.**

	1898.
Superintendent.....	\$ 3,500 00
Deputy Superintendent.....	2,000 00
Captains.....	1,500 00
Lieutenants.....	1,200 00
Detectives.....	1,200 00
Sergeants.....	1,100 00
Patrolmen, first year.....	780 00
" second year.....	840 00
" third year.....	900 00
" fourth year.....	960 00
" fifth year and thereafter.....	1,000 00
Secretary.....	1,800 00
Surgeon.....	1,300 00
Patrolman in charge of Patrol Service.....	1,200 00
Operators.....	1,000 00
Matrons.....	666 66
Janitor at Central Station.....	\$65 00 per mo.
Janitor at 8th Precinct Station.....	65 00 "
Janitor at 3d Precinct Station.....	55 00 "
Assistant Janitors at Central Station.....	50 00 "
Firemen at Central Station.....	60 00 "
Female Janitors.....	18 00 "
Female Janitors at Central Station.....	30 00 "
Hostlers.....	50 00 "
Lineman.....	50 00 "
Messenger for Police Court.....	25 00 "

PROMOTIONS OF MEMBERS OF THE FORCE DURING
THE YEAR.

Rank.	Name.	Promoted to	Date.
Sergeant.....	Alfred Walker.....	Lieutenant.....	January 1, 1898.
Patrolman No. 232.....	Wm. L. Foulks.....	Sergeant.....	January 1, 1898.
Sergeant.....	August Brandt	Lieutenant.....	January 16, 1898.
Patrolman.....	D. G. Stanton.....	Sergeant.....	January 16, 1898.
Patrolman No. 175.....	John Anderson, Jr.....	Sergeant.....	January 17, 1898.
Sergeant.....	Fred. Doering.....	Lieutenant.....	February 1, 1898.
Patrolman No. 43.....	Chas. N. Lyle.....	Sergeant.....	February 1, 1898.
Patrolman No. 63.....	John Reiber.....	Sergeant.....	October 1, 1898.
Sergeant.....	M. M. McElhanev.....	Lieutenant.....	December 16, 1898.
Patrolman No. 231.....	Thos. Madden	Sergeant.....	December 16, 1898.

CHANGES DURING THE YEAR.

Lieutenant, Alfred Walker, detailed for detective duty
January 1, 1898.

Detective, C. E. Parker, returned to regular duty as
Lieutenant, January 1, 1898.

Sergeant, D. G. Stanton, detailed for detective duty
January 1, 1898.

RESIGNATIONS OF MEMBERS OF THE FORCE AND
EMPLOYES DURING THE YEAR.

Rank.	Name.	Date.
Patrolman No. 12.....	F. C. Patmore.....	November 26, 1898.

DISMISSED FROM THE FORCE DURING THE YEAR.

Rank.	Name.	Date.
Patrolman No. 162.....	Frank Purma.....	February 19, 1896.

OFFICERS PLACED ON THE PENSION ROLL.

Rank.	Name.	Appointed.	Retired.
Lieutenant	Patrick Corkill.....	April 13, 1869.....	January 1, 1898.
Lieutenant	E. T. Granger	September 7, 1871.....	January 10, 1898.
Lieutenant	Jacob Stein.....	July 18, 1866.....	February 1, 1898.
Patrolman No. 92... ..	M. F. Silsby	March 26, 1873.....	April 1, 1898.
Patrolman No. 15.....	C. C. Thomas	September 21, 1872.....	April 16, 1898.
Lieutenant	Conrad Koch.....	May 30, 1866.....	December 16, 1898.

OFFICERS DIED DURING THE YEAR.

Rank.	Name.	Appointed.	Died.
Sergeant.....	Wm. Schneider.....	June 3, 1881.....	July 11, 1898.
Patrolman No. 96.....	James Reddy.....	June 6, 1894.....	September 14, 1898.
Patrolman No. 59... ..	Joseph F. Spurney.....	January 13, 1897	December 12, 1898.

APPOINTMENTS OF MEMBERS OF THE FORCE DURING THE YEAR.

Name.	Date.	Rank.	No.	Age.	Nativity.	Former Occupation.	Social Condition.
Frank G. Wood.....	January 18, 1898.....	Patrolman.....	232	29	United States.....	Butcher	Married.
John Karch.....	January 18, 1898.....	Patrolman	175	33	United States.....	Miner.	Married.
Chas. J. Foltz.....	February 1, 1898.....	Patrolman.....	43	33	United States.....	Butcher.....	Married.
Harry S. Dunbar.....	February 22, 1898.....	Patrolman.....	162	32	United States.....	Motorman.....	Married.
J. C. Sommer.....	May 1, 1898.....	Patrolman.....	92	28	United States.....	St. Engineer.....	Single.
Fred. C. Weber	May 1, 1898.....	Patrolman.....	15	29	Germany	Roofer.....	Single.
Frank M. Batohelor.....	October 5, 1898.....	Patrolman.....	63	25	United States.....	Lathe hand.....	Single.
Jalius Spies	October 5, 1898.....	Patrolman.....	96	27	United States.....	Barber.....	Single.
Philip Mooney.	December 16, 1898.....	Patrolman.....	12	30	United States.....	Heater.....	Married.

**SALARIES OF THE MEMBERS OF THE POLICE
DEPARTMENT.**

	1898.
Superintendent.....	\$ 3,500 00
Deputy Superintendent.....	2,000 00
Captains.....	1,500 00
Lieutenants.....	1,200 00
Detectives.....	1,200 00
Sergeants.....	1,100 00
Patrolmen, first year.....	780 00
" second year.....	840 00
" third year.....	900 00
" fourth year.....	960 00
" fifth year and thereafter.....	1,000 00
Secretary.....	1,800 00
Surgeon.....	1,300 00
Patrolman in charge of Patrol Service.....	1,200 00
Operators.....	1,000 00
Matrons.....	666 66
Janitor at Central Station.....	\$65 00 per mo.
Janitor at 8th Precinct Station.....	65 00 "
Janitor at 3d Precinct Station.....	55 00 "
Assistant Janitors at Central Station.....	50 00 "
Firemen at Central Station.....	60 00 "
Female Janitors.....	18 00 "
Female Janitors at Central Station.....	30 00 "
Hostlers.....	50 00 "
Lineman.....	50 00 "
Messenger for Police Court.....	25 00 "

**NUMBER OF DAYS LOST BY SICKNESS AND DIS-
ABILITY IN EACH MONTH.**

Month.	Sickness.	Disability.	Total.
January	271	35	309
February	189	11	200
March	169	18	187
April	198	18	211
May	244	17	261
June.....	136	19	155
July	144	35	179
August	143	41	184
September.....	140	48	188
October.....	176	8	184
November	136	87	223
December	468	89	557
Total	2409	429	2838

Total amount of days taken by the members of the force during the year under Rule

44 was.....	4157
Total amount of days taken with leave.....	370
Suspended.....	34
Quarantined.....	62

Rule 44 allows each member of the force twelve days leave of absence each year without deduction of pay.

Time lost by sickness and disability is paid in full.

Time taken with leave and suspension is deducted.

Appointment and Promotion of Officers

OF CLEVELAND POLICE FORCE.

- GEORGE E. CORNER**, appointed Patrolman, April 20, 1880; Acting Sergeant, June 7, 1887; Sergeant, January 25, 1892; Lieutenant, July 16, 1892; Detective, June 6, 1894; returned to regular duty as Lieutenant, February 2, 1896; appointed Superintendent of Police, August 16, 1896.
- A. S. GATES**, appointed Patrolman, November 13, 1871; Acting Sergeant, January 20, 1882; Sergeant, December 30, 1882; Superintendent's Clerk, February 18, 1884, to February 27, 1885; Lieutenant, December 4, 1885; Captain, February 19, 1889; Deputy Superintendent, September 20, 1896.
- JOHN VANEK**, appointed Secretary of Board of Police, July 1, 1887; reappointed, under the new law, Secretary of Police, February 12, 1891.
- F. B. NORTON**, appointed Police Surgeon, September 13, 1887; reappointed, under the new law, Police Surgeon, March 14, 1889.
- E. K. HUTCHINSON**, appointed Sergeant, April 12, 1876; Acting Lieutenant, May 16, 1882; Lieutenant, December 30, 1882; Captain, September 15, 1885.
- M. F. MADIGAN**, appointed Patrolman, May 1, 1866; Fifth Sergeant, May 31, 1866; Fourth Sergeant, December 1, 1869; Lieutenant, April 12, 1876; Captain, November 5, 1885.
- MICHAEL ENGLISH**, appointed Patrolman, April 8, 1871; Acting Sergeant, August 26, 1875; Superintendent's Clerk, July 3, 1882; Lieutenant, February 5, 1884; Captain, July 1, 1893.
- E. W. BRADLEY**, appointed Patrolman, April 29, 1875, to April 15, 1876; reappointed Patrolman, August 2, 1876; Acting Sergeant, May 16, 1882; Sergeant, February 5, 1884; Lieutenant, July 16, 1892; Captain, December 1, 1894, and detailed as Chief of Detectives; returned to regular duty as Captain, April 20, 1895.
- W. S. ROWE**, appointed Patrolman, May 18, 1880; detailed as License Officer, February 18, 1888; detailed as Secretary, August 1, 1891; Sergeant, July 16, 1892; Lieutenant, June 6, 1894; Captain, September 20, 1896.
- J. J. LOHRER**, appointed Patrolman, May 1, 1866; Acting Sergeant, April 16, 1872; Detective, April 12, 1876; Sergeant, January 13, 1897; Lieutenant, January 14, 1897; and Captain, January 15, 1897.

- JOHN SCHRIEBER**, appointed Patrolman, April 6, 1870; Roundsman, August 7, 1873; Sergeant, April 12, 1876; Acting Lieutenant, April 6, 1877; Lieutenant, April 14, 1877.
- S. KUSHMAN**, appointed Patrolman, April 25, 1868; Roundsman, January 25, 1875; Acting Sergeant, April 22, 1875; Sergeant, April 12, 1876; Lieutenant, February 5, 1885.
- THOMAS THOMPSON**, appointed Patrolman, May 15, 1867, to September 19, 1870; reappointed Patrolman, November 6, 1872; Acting Sergeant, May 23, 1881; Sergeant, January 20, 1882; Lieutenant, December 4, 1885.
- JOSIAH JOHNSON**, appointed Patrolman, July 19, 1871; Roundsman, October 24, 1877; Sergeant, May 23, 1881; Lieutenant, May 4, 1886.
- JOHN DUNN**, appointed Patrolman, December 30, 1870; Acting Sergeant, December 30, 1882; Sergeant, December 18, 1883; Lieutenant, May 4, 1886.
- GEORGE KADEL**, appointed Patrolman, April 29, 1870, to September, 1872; reappointed Patrolman, May 21, 1873; Acting Sergeant, December 30, 1882; Sergeant, December 4, 1885; Lieutenant, April 12, 1887.
- GEORGE BROADWELL**, appointed Patrolman, April 14, 1877; Acting Sergeant, May 16, 1882; Sergeant, December 30, 1882; Lieutenant, May 8, 1888.
- P. A. SEARLES**, appointed Patrolman, November 2, 1871; Acting Roundsman, November 6, 1872; Sergeant, April 12, 1876; Lieutenant, May 8, 1888.
- JOHN BURNS**, appointed Patrolman, May 8, 1868; Acting Sergeant, October 26, 1883; Sergeant, December 4, 1885; Lieutenant, February 19, 1889.
- CHARLES TRESSEL**, appointed Patrolman, November 28, 1869; Acting Sergeant, December 4, 1885; Sergeant, May 4, 1886; Lieutenant, September 1, 1891.
- JOHN O'LAUGHLIN**, appointed Patrolman, February 12, 1873; Acting Sergeant, October 26, 1883; Sergeant, December 4, 1885; Lieutenant, July 16, 1892.
- WM. JENKIN**, appointed Patrolman, January 20, 1882; detailed as Acting Sergeant, February 19, 1889; returned to regular patrol duty, May 28, 1889; detailed again as Acting Sergeant, June 4, 1889; appointed Sergeant, December 17, 1889; Lieutenant, July 16, 1892.
- JOHN SCHMUNK**, appointed Patrolman, January 15, 1881; Acting Sergeant, January 28, 1892; Sergeant, July 16, 1892; Lieutenant, April 1, 1894.
- HUGH MASTERSON**, appointed Patrolman, August 7, 1883; Sergeant, February 12, 1891; Lieutenant, January 27, 1895.
- SILAS PIERCE**, appointed Patrolman, August 22, 1886; Sergeant, July 16 1892; Lieutenant, July 1, 1895.

- FRED. KOHLER, appointed Patrolman, July 16, 1889; detailed to Secretary, June 9, 1895; Sergeant, July 1, 1895; Lieutenant, September 20, 1896.
- J. W. VARNER, appointed Patrolman, January 21, 1878; Acting Sergeant, May 8, 1888; Sergeant, February 19, 1889; Lieutenant, September 20, 1896.
- N. A. SHATTUCK, appointed Patrolman, July 16, 1889; Sergeant, February 13, 1896; detailed to Secretary, September 21, 1896; Lieutenant, January 5, 1897.
- H. T. FREHLHABER, appointed Patrolman, April 6, 1877; Acting Sergeant, February 19, 1889; Sergeant, July 16, 1892; Lieutenant, January 16, 1896; detailed as Detective, February 2, 1896; returned as Lieutenant, January 15, 1897.
- M. F. WOOD, appointed Patrolman, May 20, 1877; License Officer, June 23, 1885; detailed to Secretary, February 14, 1888; Sergeant and appointed to Secretary, March 14, 1889; Lieutenant, July 20, 1897.
- AUGUST BRANDT, appointed Patrolman, June 29, 1886; Sergeant, May 1, 1895; Lieutenant, January 16, 1898.
- FREDERICK DOERING, appointed Patrolman, March 6, 1888; Sergeant, September 20, 1896; Lieutenant, February 1, 1898.
- C. E. PARKER, appointed Patrolman, December 28, 1882; Acting Sergeant, September 1, 1891; Sergeant, July 16, 1892; Lieutenant, December 1, 1894; detailed as Detective, September 14, 1896; returned to regular duty as Lieutenant, January 1, 1898.
- M. M. MCELHANEY, appointed Patrolman, May 4, 1886; Sergeant, September 20, 1896; detailed to Secretary, January 4, 1897; Lieutenant, December 16, 1898.
- JOHN REEVES, appointed Patrolman, May 13, 1875; Special Detective, July 8, 1875; Detective, April 26, 1876.
- A. McMILLAN, appointed Patrolman, February 23, 1872; Acting Detective, July 10, 1883; Detective, December 18, 1883.
- J. F. SPROSTV, appointed Patrolman, November 6, 1872; Emigrant Officer, June 23, 1885; Detective, May 8, 1888.
- JAMES DORAN, appointed Patrolman, April 15, 1884; detailed as Detective, July 12, 1893.
- L. A. DECILLE, appointed Patrolman, March 1, 1881; Acting Sergeant, November 5, 1881; Sergeant, July 16, 1892; Lieutenant, February 11, 1896; detailed as Detective, February 16, 1896.
- WILLIAM WATT, appointed Patrolman, May 18, 1886; Sergeant, January 5, 1897; detailed as Detective, January 15, 1897.
- C. O. KLAUE, appointed Patrolman, May 2, 1882; Acting Sergeant, October 2, 1888; returned to patrol duty, May 28, 1889; Acting Sergeant, September 24, 1889; Sergeant, February 12, 1891; Lieutenant, January 5, 1897; detailed as Detective, January 15, 1897.

DANIEL G. STANTON, appointed Patrolman, January 7, 1892; detailed as Detective, October 1, 1897; Sergeant, January 16, 1898, and detailed for detective duty.

ALFRED WALKER, appointed Patrolman, June 29, 1886; Sergeant, January 16, 1896; Lieutenant, January 1, 1898, and detailed for detective duty.

JOHN BEUCHLER, appointed Patrolman, May 1, 1872; Acting Sergeant, August 23, 1887; returned to patrol duty, May 28, 1889; Acting Sergeant, September 24, 1889; Sergeant, February 12, 1891.

M. J. REGAN, appointed Patrolman, June 6, 1882; Acting Sergeant, September 16, 1890; Sergeant, February 12, 1891.

J. J. DOYLE, appointed Patrolman, June 6, 1882; Sergeant, April 1, 1894.

ED. CORRIGAN, appointed Patrolman, August 9, 1887; Sergeant, July 1, 1894.

E. F. WASHINGTON, appointed Patrolman, August 7, 1883; Sergeant, October 3, 1894.

JAMES CULLEN, appointed Patrolman, August 7, 1883; Sergeant, December 1, 1894.

THOMAS COMMERFORD, appointed Patrolman, December 31, 1886; Sergeant, January 27, 1895.

JOHN ROWLANDS, appointed Patrolman, January 7, 1892; Sergeant, January 5, 1897.

GEORGE A. KADEL, appointed Patrolman, June 3, 1886; Sergeant, January 21, 1897; detailed to Secretary, January 15, 1899.

J. M. BROOKS, appointed Patrolman, May 4, 1880; Sergeant, February 6, 1897.

FREDERICK FISCHER, appointed Patrolman, December 20, 1887; Sergeant, July 20, 1897.

HERMAN PRANGE, appointed Patrolman, January 19, 1886; Sergeant, October 1, 1897.

WM. L. FOULKS, appointed Patrolman, January 7, 1892; Sergeant, January 1, 1898.

JOHN ANDERSON, JR., appointed Patrolman, January 13, 1887; Sergeant, January 17, 1898.

CHARLES N. LYLE, appointed Patrolman, May 8, 1888; Sergeant, February 1, 1898.

JOHN REIBER, appointed Patrolman, January 7, 1892; Sergeant, October 1, 1898.

THOS. MADDEN, appointed Patrolman, July 16, 1889; Sergeant, December 16, 1898.

INVENTORY OF PUBLIC PROPERTY APPERTAINING TO THE POLICE DEPARTMENT
OF THE CITY OF CLEVELAND.

DEPARTMENT OF POLICE.

725

Police Stations.	Location.	Value of Land.	Value of Buildings.	Value of Apparatus.	Value of Furniture and Fixtures.	Value of Horses.	Value of Supplies and Equipm'ts.	Value of Sewer and Water Connect'ns.	Total.
Headquarters.....	City Hall.....	\$.....	\$.....	\$.....	\$ 700 00	\$.....	\$ 300 00	\$.....	\$ 1,000 00
1st Precinct.....	Champlain street.....	90,000 00	110,000 00	.....	6,000 00	.....	1,000 00	1,000 00	208,000 00
2nd ".....	Oregon street.....	3,000 00	3,500 00	.....	350 00	.....	50 00	250 00	7,150 00
3rd ".....	Forest street.....	2,500 00	5,000 00	.....	500 00	.....	60 00	200 00	8,260 00
4th ".....	Willson, cor. Perkins.....	4,600 00	10,000 00	.....	800 00	.....	150 00	225 00	15,775 00
5th ".....	E. Madison ave.....	2,500 00	10,000 00	.....	800 00	.....	100 00	200 00	13,600 00
6th ".....	Willson ave.....	2,500 00	3,500 00	.....	1,000 00	.....	125 00	250 00	7,375 00
7th ".....	Wales street.....	1,000 00	1,500 00	.....	500 00	.....	80 00	50 00	3,130 00
8th ".....	Detroit, cor. State st....	10,000 00	40,000 00	.....	900 00	.....	180 00	350 00	51,430 00
9th ".....	Barber ave.....	1,000 00	3,000 00	.....	700 00	.....	60 00	100 00	4,860 00
10th ".....	Swiss street.....	1,000 00	3,000 00	.....	500 00	.....	60 00	100 00	4,660 00
11th ".....	Doan street.....	2,400 00	10,500 00	.....	600 00	.....	70 00	250 00	13,820 00
12th ".....	Detroit street.....	2,500 00	10,000 00	.....	700 00	.....	60 00	250 00	13,510 00

DEPARTMENT OF POLICE.

INVENTORY OF PUBLIC PROPERTY APPERTAINING TO THE POLICE DEPARTMENT
OF THE CITY OF CLEVELAND—Concluded.

Police Stations.	Location.	Value of Land.	Value of Buildings.	Value of Apparatus.	Value of Furniture and Fixtures.	Value of Horses.	Value of Supplies and Equipments.	Value of Beer and Water Connections.	Total.
Patrol Station No. 1.....	Champlain street.....	\$18,000 00	\$15,000 00	\$ 1,500 00	\$ 100 00	\$ 1,050 00	\$ 150 00	\$ 350 00	\$ 36,150 00
" " 2.....	State street.....	2,000 00	10,000 00	750 00	100 00	750 00	100 00	150 00	13,850 00
" " 3.....	Oregon street.....	1,200 00	1,800 00	500 00	100 00	600 00	75 00	100 00	4,375 00
" " 4.....	Willson ave.....	2,000 00	3,000 00	750 00	100 00	750 00	75 00	100 00	6,775 00
" " 5.....	Swiss street.....	1,000 00	2,000 00	500 00	100 00	600 00	50 00	50 00	4,300 00
Patrol System.....				25,000 00	150 00		100 00		25,250 00
Equipments.....							4,670 00		4,670 00
Total.....		\$ 147,200 00	\$ 241,800 00	\$ 29,000 00	\$ 14,700 00	\$ 3,750 00	\$ 7,515 00	\$ 3,975 00	\$ 447,940 00

DEPARTMENT OF POLICE.

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SPECIAL POLICEMEN.

Appointed during the year, at the request of Citizens and Companies.

Name.	Place of Duty.	Appointed.
Frank Fuller	Pickands, Mather & Co.....	January 4, 1898.
John Sheridan.....	" " "	January 4, 1898.
Elisha D. Conklin	" " "	January 4, 1898.
John F. Jones.....	" " "	January 4, 1898.
Leopold Hirsch.....	Willson ave.; Woodland to Central.....	January 21, 1898.
D. C. Schilk	Case ave.; Scovill to Central	January 18, 1898.
John Galliford	Cleveland Rolling Mill Co.....	Feb. 3, 1898.
Lambert Y. Potter.....	Cedar ave; Clarkwood to Plymouth Place.....	Feb. 7, 1898.
Wm. Hogan.....	Globe Iron Works Co.....	Feb. 17, 1898.
Oscar Cook.....	Woodland, Broadway, Erie & Central ave....	March 9, 1898.
Henry Fight.....	Lorain street; Liberty to Ridge ave.....	March 9, 1898.
Andrew Cranston.....	Cleveland Base Ball Park	March 21, 1898.
David D. Berry.....	Brown Hoisting & Con. Mach. Co.....	May 2, 1898.
W. W. Anderson.....	Wade Park Garden	May 9, 1898.
Milo Van Vossan.....	C., C. & S. and Belt Line Rys.....	August 18, 1898.
G. A. Domino.....	Colonial Club, Euclid ave.	Sept. 24, 1898.
Charles Goede.....	Kinsman street	Nov. 12, 1898.
Jas. R. Slayton, Jr	Browning, King & Co.....	Dec. 9, 1898.
Harry Lambert.....	Pennsylvania Co.....	Feb. 21, 1898.
Frank A. Truman	For the Citizens' Special Police & Det. Dept...	Feb. 1, 1898.
Chas. W. McCort.....	" " "	Feb. 1, 1898.
Harry Paddock.....	" " "	Feb. 1, 1898.
Burton J. Potter.	" " "	Feb. 1, 1898.
Louis Wise	" " "	Feb. 1, 1898.
E. W. Evans.....	" " "	Feb. 1, 1898.
H. L. Langer	" " "	Feb. 2, 1898.
T. H. Perry.....	" " "	Feb. 2, 1898.
E. L. Walters.....	" " "	Feb. 7, 1898.
Wm. F. Hagen.....	" " "	Feb. 7, 1898.
Frank E. James.....	" " "	Feb. 7, 1898.
G. E. Clark.....	" " "	Feb. 7, 1898.
Jake Mints.....	" " "	Feb. 12, 1898.

DEPARTMENT OF POLICE.

SPECIAL POLICEMEN—Concluded.

Name.	Place of Duty.	Appointed.
Charles Miller.....	For the Citizens' Special Police & Det. Dept...	Feb. 15, 1898.
F. B. Ladd.....	" " "	Feb. 28, 1898.
Carl Bernstein.....	" " "	March 5, 1898.
Herbert C. Maxwell.....	" " "	March 5, 1898.
Chas. H. Milling.....	" " "	April 2, 1898.
Hiram Ross.....	" " "	April 7, 1898.
Ernest Wallace.....	Metropolitan Det. Agency Co.....	Feb. 2, 1898.
Peter Jensik.....	Cleveland Special Police Co.....	June 23, 1898.
Frederick Pockart.....	" " "	Sept. 16, 1898.
Leon Jablonski.....	" " "	Sept. 16, 1898.

**CITY OFFICERS AND EMPLOYES CLOTHED WITH
POLICE POWERS DURING THE YEAR.**

Name.	Official Position.	Appointed.
F. G. Kaufholz	Examiner of Engineers.....	March 9, 1898.
Henry Miller.....	Janitor Central Station.....	Nov. 19, 1898.
W. H. Westman	Hay Weigher, Central Scale.....	June 8, 1898.
F. B. Schultze.....	Food Inspector.....	July 28, 1898.
Sidney S. De Viney	Park Policeman.....	April 30, 1898.
Geo. Wilson	" "	April 30, 1898.
Edwin Turner	" "	May 12, 1898.
Henry Mahaffey.....	School Janitor.....	Jan. 26, 1898.
Wm. McNeff.....	" "	Aug. 20, 1898.
Geo. F. Parsons.....	" "	Aug. 20, 1898.
D. A. Park.....	" "	Aug. 23, 1898.
G. W. Stewart	" "	Oct. 15, 1898.
Henry T. McAul-y	" "	Nov. 5, 1898.

Report of the Superintendent of Police.

CLEVELAND, O., January 1, 1899.

To Capt. E. A. Abbott, Director of Police:

SIR:—I have the honor to submit herewith the Annual Report of the Police Department for the fiscal year ending December 31, 1898.

Perhaps a few suggestions as to the wants of the Department would not be out of order. I wish to state that the need of an increase in the Force is growing each year, and that the Department of Cleveland is not receiving the support that other cities of like size give their Police Departments. We are in need of a new station house, four more patrol barns and wagons, the patrol system extended throughout the city, and an addition of 200 patrolmen. We would then be no better equipped than other cities of the same population. The area now covered by the signal system is too limited and should be extended over the entire city. Circumstances frequently occur during the day and night when it becomes necessary for the patrolmen to communicate important information to the precinct station or police headquarters, and by reporting at intervals from each signal box in the district patrolled by them they can receive orders which otherwise could not be transmitted without great loss of time.

One other need of the Department is a suitable place to drill. But for the kindness of those in charge of Grays' Armory we would not have had a place to drill for the past two years. A suitable place should be provided at once.

Last July the Bertillon Measurement and Identification System was adopted and put into operation here, and is giving entire satisfaction.

The work in the Detective Bureau for the past year has been most excellent, showing increase of work over former years.

The efficiency and discipline of the Force is steadily improving. A Police Department in a city like Cleveland has a great many obstacles to contend with. Unlike other departments of the City Government, it is always under the scrutinizing eye of the public. If mistakes are made, no matter how trivial, there is always some one who will magnify these mistakes to such an extent that those not familiar with the facts believe that something of a very serious nature has occurred. They are censured from all sides and looked upon by a certain element in the community as enemies of society, and seldom receive any praise no matter how heroically they act or how manfully and honestly they perform their duty.

The city has been free from serious disturbances or strikes for the past year.

In conclusion, I desire to thank His Honor the Mayor and yourself for the valuable assistance, cordial support and encouragement given me during the year. I also wish to thank the Force in general for their hearty co-operation and courteous treatment at all times. I am,

Respectfully yours,

GEO. E. CORNER,

Sup't of Police.

The following statistical tables will more particularly show the detailed workings of the force for the year ending December 31st, 1898.

ARRESTS MADE DURING THE YEAR.

Month.	Males.	Females.	Total.
January	893	98	991
February	756	68	824
March	943	88	1,031
April	1,130	105	1,235
May	1,286	119	1,385
June.....	1,206	110	1,316
July	1,309	180	1,489
August	1,201	159	1,360
September.....	1,261	140	1,401
October	1,282	110	1,392
November.....	964	95	1,059
December.....	870	99	969
Total	13,081	1,371	14,452

COLOR.

White	13,782
Colored.....	670
Total.....	14,452

SOCIAL CONDITION.

	Males.	Females.	Total.
Married.....	4,619	645	5,264
Single.....	8,462	726	9,188
Total.....	13,081	1,371	14,452

QUALIFICATION.

Able to read and write.....	13,484
Unable to read and write.....	968
Total	14,452

OFFENSES.

VIOLATING STATE LAWS.

Abortion, attempt to procure an.....	1
Abortion.....	2
Adultery.....	7
Arson.....	7
Assault and battery.....	693
Assault with intent to rob.....	11
Assault with intent to kill	13
Assault with intent to rape.....	1
Attachment	168
Bastardy.....	3
Bigamy	1
Bribery	1
Burglary.....	4
Burglary, attempting.....	5
Burglary and larceny.	86
Blackmail.....	1
Carrying concealed weapons.....	87
Contempt of Court.....	1
Cruelty to animals.....	84
Cutting with intent to kill.....	2
Cutting with intent to wound.....	33
Defrauding inn-keeper.....	15
Destroying property.....	83
Deserting from United States Army.....	1
Desertion.....	2
Embezzlement.....	15
Forgery.....	4
Fugitive from justice	21
Gambling	27
Grand larceny	72
Horse stealing.....	18
House breaking	26
Insanity.....	2
Incest.....	2
Incorrigible conduct.....	23

DEPARTMENT OF POLICE.

Kidnaping.....	2
Known thief.....	1
Minors, selling cigarettes to.....	6
Maiming.....	1
Manslaughter.....	11
Murder.....	5
Neglecting minor children.....	51
Obstructing officer.....	11
Obtaining money by false pretenses.....	21
Obtaining goods by false pretenses.....	4
Passing counterfeit money.....	7
Petit larceny.....	854
Pocket picking.....	36
Pool selling.....	2
Rape.....	16
Receiving and buying stolen property.....	26
Receiving and concealing stolen property.....	5
Robbery.....	44
Selling liquor to intoxicated person.....	1
Shooting with intent to wound.....	11
Shooting with intent to kill.....	17
Stabbing with intent to wound.....	6
Threatening in a menacing manner.....	25
Violating gas law.....	1
Violating base-ball law.....	1
Violating barber law.....	6
Violating election law.....	2
Violating labor law.....	9
Violating inn-keeper law.....	1
Violating pawnbroker law.....	1
Violating railroad law.....	979
Violating Sunday liquor law.....	119
Violating the truancy law.....	171
Wrongfully using animals.....	15
Total.....	3,992

VIOLATING CITY ORDINANCES.

Careless driving.....	21
Common beggar.....	57
Common prostitute.....	230
Disorderly conduct.....	451
Disturbance.....	316
Escaped from prison.....	3
Fast driving.....	2

DEPARTMENT OF POLICE.

735

Indecent exposure of person.....	13
Intoxication.....	7,685
Keeping house of ill-fame.....	22
Keeping opium rooms.....	1
Keeping gambling rooms.....	2
Keeping pool room	1
Residing in house of ill-fame.....	60
Street soliciting.....	21
Suspicious persons.....	361
Selling pools.....	2
Vagrancy.....	142
Violating bathing ordinance.....	45
Violating bicycle ordinance.....	105
Violating bill posters' ordinance.....	15
Violating billiard ordinance.....	50
Violating cemetery ordinance.....	2
Violating building ordinance.....	1
Violating express ordinance.....	12
Violating engineers' ordinance.....	1
Violating fire alarm ordinance.....	4
Violating firearms ordinance.....	26
Violating health ordinance.....	6
Violating junk ordinance.....	19
Violating market ordinance.....	9
Violating music ordinance.....	12
Violating park ordinance.....	10
Violating peddlers' ordinance.....	51
Violating property ordinance.....	138
Violating gas-lamp ordinance.....	1
Violating midnight closing ordinance.....	21
Violating sidewalk ordinance.....	338
Violating smoke ordinance.....	1
Violating street ordinance.....	72
Violating street railroad ordinance.....	43
Violating weights and measures ordinance.....	5
Visiting houses of ill-fame.....	70
Visiting gambling rooms.....	10
Visiting opium rooms.....	2
Total	10,460

TOTAL NUMBER OF ARRESTS DURING THE YEAR.

Violating State Laws.....	3,992
Violating City Ordinances.....	10,460
Total.....	14,452

OCCUPATIONS.

Actors.....	9
Agents.....	111
Architects.....	4
Artists.....	6
Awning maker.....	1
Bakers.....	87
Barbers.....	112
Bartenders.....	141
Beggars.....	7
Bill posters.....	11
Blacksmiths.....	89
Boilermakers.....	138
Boltmakers.....	28
Bookbinder.....	1
Bookkeepers.....	51
Bootblacks.....	16
Brakemen.....	60
Brewers.....	12
Bricklayers.....	100
Brickmakers.....	4
Brokers.....	20
Butchers.....	115
Calker.....	1
Cabinetmakers.....	4
Carpenters.....	340
Carriagemakers.....	9
Cigarmakers.....	74
Clerks.....	254
Coachmen.....	41
Collectors.....	20
Conductors.....	10
Confectioners.....	8
Contractors.....	39
Cooks.....	89
Coopers.....	20
Coremakers.....	49
Doctors.....	33
Dressmakers.....	26
Druggists.....	16
Dentist.....	1
Electricians.....	56
Engineers.....	145
Expressmen.....	21
Farmers.....	157
Finishers.....	61

DEPARTMENT OF POLICE.

787

Florists.....	6
Firemen.....	139
Fishermen.....	6
Furrier.....	1
Gasfitters.....	5
Gamblers.....	6
Gardeners.....	29
Glassblowers.....	17
Grocers.....	45
Hackmen.....	9
Hatters.....	8
Harnessmakers.....	11
Heaters.....	36
Helpers.....	8
Horseshoers.....	24
Hostlers.....	103
Housekeepers.....	557
Housemovers.....	8
Hotelkeepers.....	5
Hucksters.....	73
Ironworkers.....	179
Janitors.....	15
Jewelers.....	20
Junk dealers.....	28
Laborers.....	3 921
Lawyers.....	9
Lather.....	1
Livery keepers.....	4
Laundrymen.....	13
Lithographers.....	6
Locksmith.....	1
Machinists.....	343
Manufacturers.....	5
Masons.....	26
Mechanics.....	38
Merchants.....	74
Milkmen.....	2
Miners.....	35
Moulders.....	315
Motormen.....	2
Musicians.....	39
Miller.....	1
Newsboys.....	29
Newspapermen.....	2
Operators.....	25
Painters.....	342
Paperhangers.....	55
Patternmakers.....	14

Peddlers.....	228
Plasterers.....	41
Plumbers.....	91
Polishers.....	124
Porters.....	61
Printers.....	103
Prostitutes.....	492
Photographers.....	6
Puddlers.....	2
Railroad men.....	156
Rolling-mill men.....	163
Roofers.....	27
Salesmen.....	107
Sailors.....	350
Saloonkeepers.....	258
Schoolboys.....	583
Schoolgirls.....	15
Sewer builder.....	1
Servants.....	161
Steward.....	1
Ship carpenters.....	7
Soldiers.....	48
Shoemakers.....	86
Steamfitters.....	30
Stonecutters.....	59
Stenographers.....	10
Stonemasons.....	24
Tailors.....	117
Tanners.....	5
Teamsters.....	484
Thieves.....	28
Tinsmiths.....	110
Turners.....	3
Undertakers.....	5
Upholsterers.....	11
Waiters.....	120
Washerwomen.....	17
Watchmen.....	30
Weavers.....	11
Welldiggers.....	3
Whitewashers.....	9
Wireworkers.....	63
No occupation.....	956
Total.....	14,452

DEPARTMENT OF POLICE.

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NATIVITY.

Arabia.....	29
Austria.....	231
Bohemia.....	397
Canada.....	419
China.....	4
Denmark.....	14
England.....	529
Finland.....	27
France.....	31
Germany.....	1,263
Greece.....	8
Holland.....	15
Hungary.....	221
India, East.....	1
Ireland.....	1,266
Isle of Man.....	10
Italy.....	193
Mexico.....	1
Norway.....	23
Nova Scotia.....	1
Newfoundland.....	5
Poland.....	250
Russia.....	160
Scotland.....	191
Slovacs.....	83
Spain.....	1
Sweden.....	63
Switzerland.....	35
United States.....	8,881
Wales.....	100
Total.....	14,452

AGES.

	Under Ten.	Ten to Twenty.	Twenty to Thirty.	Thirty to Forty.	Forty to Fifty.	Fifty to Sixty.	Sixty and over.	Total.
Total.	45	2,457	5,124	3,590	2,060	903	273	14,452

DISPOSITION OF CASES.

	Fine and Costs.	Fine and Workhouse.	Costs.	Nolled.	Dismissed.	Bound over to Court of Common Pleas.	Cases continued.	Delivered to Officers from Abroad.	Committed to Infr- mary.	Committed to Reform Farm.	Delivered to Sheriff.	Sent to Hospital.	Bonds forfeited.	Turned over to U. S. Court.	Total.
Total.....	7,271	549	1,225	254	2,722	162	2,007	92	29	46	45	20	26	4	14,452

2,105 of the 7,271 sentenced to "fine and costs," unable to pay the same, were sent to the Workhouse, so that the number of prisoners received at the Workhouse was 2,654.

TOTAL OF ARRESTS FOR THE PAST TWENTY-ONE
YEARS.

1878.....	7,151
1879.....	6,539
1880.....	7,482
1881.....	7,465
1882.....	6,741
1883.....	7,254
1884.....	7,270
1885.....	6,862
1886.....	6,732
1887.....	8,568
1888.....	8,734
1889.....	10,377
1890.....	9,616
1891.....	11,133
1892.....	10,717
1893.....	9,368
1894.....	9,761
1895.....	11,006
1896.....	13,491
1897.....	14,461
1898.....	14,452

PROPERTY REPORTED STOLEN AND RECOVERED
DURING THE YEAR.

Months.	Stolen.	Recovered.
January	\$ 1,935 70	\$ 729 83
February	1,959 00	942 20
March	1,588 68	1,820 67
April	1,511 70	2,546 25
May	2,128 94	3,540 65
June.....	2,330 90	1,751 00
July	2,127 58	1,800 13
August	1,996 98	2,134 70
September..	2,318 85	1,364 75
October.....	2,206 95	1,885 25
November....	3,001 58	1,964 84
December.....	1,751 22	1,505 08
Total.....	\$24,808 08	\$21,985 35

**PROPERTY REPORTED STOLEN AND RECOVERED FOR
THE PAST TWENTY-FIVE YEARS.**

Years.	Stolen.	Recovered.	Per Cent Recovered.
1874.....	\$35,559 83	\$17,856 57	50.75
1875.....	50,109 77	29,273 28	58.41
1876.....	34,762 72	24,065 60	69.20
1877.....	27,677 67	30,055 60	79.76
1878.....	29,731 43	23,595 95	80.33
1879.....	21,068 25	13,075 25	62.06
1880.....	28,780 90	24,913 40	86.56
1881.....	135,880 75	124,508 09	91.63
1882.....	45,308 55	22,120 85	47.72
1883.....	21,266 80	12,180 46	57.22
1884.....	37,128 67	29,783 16	80.21
1885.....	32,227 53	14,410 02	44.99
1886.....	26,775 41	12,840 14	47.95
1887.....	38,805 64	17,844 19	46.24
1888.....	34,030 34	11,215 01	32.95
1889.....	57,310 84	13,305 15	23.22
1890.....	36,521 06	20,533 32	56.23
1891.....	42,978 71	22,302 64	51.89
1892.....	39,292 50	16,512 91	42.02
1893.....	40,717 97	22,534 96	55.34
1894.....	50,505 16	56,212 30	.....
1895.....	40,200 47	22,190 56	55.05
1896.....	38,168 61	19,370 63	50.75
1897.....	29,617 04	19,420 49	65.57
1898.....	24,808 08	21,965 35	88.62

NUMBER OF PERSONS SENT TO THE WORKHOUSE.

Months.	Males.	Females.	Total.
January	211	25	236
February	154	21	175
March	225	25	250
April	209	26	235
May	261	28	289
June.....	203	20	223
July	188	19	207
August	236	29	265
September.....	172	24	196
October.....	200	18	218
November.....	170	18	188
December.....	157	15	172
Total	2,386	268	2,654

NUMBER OF PERSONS SENT TO WORKHOUSE AND
HOUSE OF CORRECTION FOR THE PAST
SEVENTEEN YEARS.

1882.

Sent to Workhouse.....	1,514
Sent to House of Refuge and Correction.....	60
	1,574
Total.....	1,574

1883.

Sent to Workhouse.....	1,507
Sent to House of Refuge and Correction.....	114
	1,621
Total.....	1,621

1884.

Sent to Workhouse.....	1,812
Sent to House of Refuge and Correction	114
	1,926
Total.....	1,926

1885.

Sent to Workhouse.....	2,098
Sent to House of Refuge and Correction	85
	2,183
Total.....	2,183

1886.

Sent to Workhouse.....	1,829
Sent to House of Refuge and Correction	68
	1,897
Total.....	1,897

1887.

Sent to Workhouse.....	1,981
Sent to House of Refuge and Correction	63
	2,044
Total.....	2,044

1888.

Sent to Workhouse.....	2,022
Sent to House of Refuge and Correction	37
	2,059
Total.....	2,059

DEPARTMENT OF POLICE.

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1889.

Sent to Workhouse.....	3,038
Sent to House of Refuge and Correction	49
Total.....	3,087

1890.

Sent to Workhouse.....	2,660
Sent to House of Refuge and Correction	58
Total.....	2,718

1891.

Sent to Workhouse.....	3,105
Sent to House of Refuge and Correction	42
Total.....	3,146

1892.

Sent to Workhouse.....	2,737
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1893.

Sent to Workhouse.....	2,462
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1894.

Sent to Workhouse.....	2,872
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1895.

Sent to Workhouse.....	3,120
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1896.

Sent to Workhouse.....	3,548
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1897.

Sent to Workhouse.....	3,233
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1898.

Sent to Workhouse.....	2,654
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DEPARTMENT OF POLICE.

MISCELLANEOUS.

Month.	Abortion.	Accidents Reported.	Accidentally Killed.	Accidents to Persons.	Assault to Kill.	Assaulted Persons.	Attempted Burglaries.	Attempt to Rape.	Attempted Robberies.	Attempted Suicides.	Arson.	Articles Lost.	Articles Found.	Animals Astray.	Animals Found.	Bicycle Accidents.	Bodies Found.	Burglaries.	Children Deserted.	Cutting Array.	Doors Found Open.	Drowned.	Fires Reported.	House Breaking.	Insane Persons Picked Up.	Lights Reported Out.		
																										Gas.	Vapor.	Electric.
January	3	27	.....	7	4	.....	1	2	.....	17	17	16	11	.....	.....	49	.....	3	86	1	72	10	2	292	6,107	80
February	2	25	.....	2	2	.....	4	1	.....	17	13	7	8	1	.....	40	1	2	60	2	55	3	5	209	9,392	65
March	4	34	.....	4	2	1	1	3	.....	19	19	12	12	.....	1	49	.....	.....	75	1	60	15	2	233	8,599	114
April	1	.....	3	38	.....	3	.....	1	2	3	.....	16	13	14	13	4	2	40	.....	5	93	.....	78	17	.....	198	2,247	83
May	3	7	57	.....	3	2	.....	4	7	1	14	25	19	22	5	7	34	.....	3	82	3	70	26	1	220	513	80
June	6	53	.....	3	.....	.....	2	5	.....	29	14	28	29	7	3	35	.....	3	68	5	74	16	.....	205	571	21
July	2	19	53	1	2	2	.....	.....	5	1	21	13	27	30	4	6	25	.....	5	57	12	120	14	1	199	1,330	101
August	7	51	.....	6	2	1	1	4	.....	19	14	21	25	7	1	45	.....	2	56	2	76	3	.....	133	1,721	23
September	1	38	.....	6	2	1	1	4	.....	21	10	25	19	1	1	49	.....	3	54	1	76	8	.....	466	1,136	322
October	5	42	.....	8	1	.....	1	4	.....	11	13	29	30	3	2	51	.....	7	70	.....	73	14	.....	349	1,390	74
November	16	39	.....	.....	2	7	2	3	2	.....	19	19	28	23	2	2	51	.....	3	91	.....	86	3	.....	254	2,055	84
December	11	48	.....	5	3	.....	1	3	.....	17	27	13	21	.....	.....	46	1	.....	93	.....	94	20	1	490	1,630	37
Total	1	6	264	505	1	51	27	6	21	43	2	220	202	244	243	31	25	514	2	36	885	27	834	149	13	3,504	36,696	1,034

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Months.	Reports Received and Referred to																											
	Kidnaping.	Horse Stealing.	Missing Persons.	Missing Persons Round.	Murders.	Persons taken to Hospitals.	Pockets Picked.	Rape.	Robberies.	Railroad Accidents.	Runaways.	Shooting Affrays.	Sick Persons Round on Street.	Stabbing Affrays.	Suicides.	Sudden Deaths.	Street Railroad Accidents.	Windows Round Open.	Director of Public Works.	Director of Fire.	Director of Charities.	Board of Elections.	Inspector of Buildings.	Superintendent of Police Telegraph.	Postoffice Department.	Humane Agent.	Examiner of Enginemen.	
January.....	11	11	224	57	8	18	6	6	3	4	1	1	4	8	11	104	1	1
February.....	3	15	2	1	4	3	2	3	1	1	3	8	6	93	2	1
March.....	15	15	4	2	7	11	1	2	5	4	4	8	896	1	1
April.....	23	29	7	10	1	5	3	5	1	5	6	8	5	211
May.....	20	32	4	1	13	8	9	1	1	6	19	6	298
June.....	30	40	5	1	7	6	1	3	8	10	6	189	1
July.....	26	27	6	6	3	3	3	2	1	8	9	11	4	179
August.....	17	31	2	1	5	6	10	2	5	5	3	5	9	6	112
September.....	18	20	14	5	3	4	5	2	5	4	11	6	154
October.....	17	36	3	6	6	6	1	2	1	2	5	11	6	163	1
November.....	8	22	8	8	6	6	1	2	3	7	16	5	131
December.....	17	29	6	1	11	6	4	3	4	1	4	4	11	5	71
Total.....	1	11	224	57	8	18	6	4	77	59	70	23	26	12	45	63	126	74	2,600	1	2	1	467	1	4	1

Report of the Detective Department.

CLEVELAND, O., January 1, 1899.

George E. Corner, Esq., Supt. of Police :

DEAR SIR:—I have the honor to submit to you my annual report of the work performed by this Department for the year ending December 31, 1898, as follows:

Communications received from and sent to Police Departments of other cities for fugitives, stolen property, etc. :

Letters	3,992
Circulars	1,503
Postals	4,757
Complaints by citizens	2,549
Telegrams	614
Arrests made for different offenses	461
Criminals set for photographs	247
Copies made	3,595
Stolen property recovered and returned to owners	\$15,058.40

This shows an increase over last year's report, and was accomplished by much hard labor and frequently required the men to work overtime in many cases, which was willingly done in order to obtain the desired results.

I also attribute a great part of this success to the harmonious and friendly feeling which exists throughout the whole Department and a willingness to assist one another in the performance of their duty.

I would recommend at this time that five more men be added to this Department, as proper attention cannot always be given to the complaints made by our citizens.

The force of to-day is the same in number as it was twenty years ago, while the city has doubled in population and territory. Much of the men's time is required in Police and Criminal Courts, and bicycle thieves have added much labor to the Department. Many of them have been arrested and convicted and 102 of the stolen wheels recovered and returned to the owners.

I desire to thank the men of this Department for their services rendered and the united efforts on their part to accomplish above results.

I also wish to thank you for the valuable assistance, wise counsel and advice given, and hope that our close and friendly relations may continue in the future as they have in the past.

I am,

Respectfully yours,

J. J. LOHRER,

Capt. of Detectives.

TOTAL OF ARRESTS FOR THE PAST TWENTY-ONE
YEARS.

1878.....	7,151
1879.....	6,539
1880.....	7,432
1881.....	7,465
1882.....	6,741
1883.....	7,254
1884.....	7,270
1885.....	6,882
1886.....	6,732
1887.....	5,588
1888.....	8,734
1889.....	10,377
1890.....	9,616
1891.....	11,183
1892.....	10,717
1893.....	9,368
1894.....	9,751
1895.....	11,006
1896.....	13,491
1897.....	14,451
1898.....	14,452

PROPERTY REPORTED STOLEN AND RECOVERED
DURING THE YEAR.

Months.	Stolen.	Recovered.
January	\$ 1,935 70	\$ 729 83
February	1,969 00	942 20
March	1,588 68	1,820 67
April	1,511 70	2,546 25
May	2,128 94	3,540 65
June.....	2,330 90	1,751 00
July	2,127 58	1,800 13
August	1,996 98	2,134 70
September..	2,318 85	1,364 75
October.....	2,206 95	1,885 25
November....	3,001 58	1,964 84
December.....	1,761 22	1,505 08
Total.....	\$24,808 08	\$21,985 35

**PROPERTY REPORTED STOLEN AND RECOVERED FOR
THE PAST TWENTY-FIVE YEARS.**

Years.	Stolen.	Recovered.	Per Cent Recovered.
1874.....	\$35,559 83	\$17,856 57	50.75
1875.....	50,109 77	29,273 26	58.41
1876.....	34,762 72	24,055 60	69.20
1877.....	27,677 67	30,055 60	79.76
1878.....	29,781 43	23,595 95	80.33
1879.....	21,068 25	13,075 25	62.06
1880.....	28,780 90	24,913 40	86.56
1881.....	135,880 75	124,508 09	91.63
1882.....	45,308 55	22,120 85	47.72
1883.....	21,266 80	12,180 46	57.22
1884.....	37,128 67	29,783 16	80.21
1885.....	32,227 53	14,410 02	44.99
1886.....	26,775 41	12,840 14	47.95
1887.....	38,805 64	17,844 19	46.24
1888.....	34,080 34	11,215 01	32.95
1889.....	57,310 84	13,305 15	23.22
1890.....	36,521 06	20,533 32	56.23
1891.....	42,978 71	22,302 64	51.89
1892.....	39,292 50	16,512 91	42.02
1893.....	40,717 97	22,534 96	55.34
1894.....	50,505 16	56,212 30	.....
1895.....	40,200 47	22,130 56	55.05
1896.....	38,168 61	19,370 63	50.75
1897.....	29,617 04	19,420 49	65.57
1898.....	24,808 08	21,985 35	88.62

NUMBER OF PERSONS SENT TO THE WORKHOUSE.

Months.	Males.	Females.	Total.
January	211	25	236
February	154	21	175
March	225	25	250
April	209	26	235
May	261	28	289
June.....	203	20	223
July	188	19	207
August	236	29	265
September.....	172	24	196
October.....	200	18	218
November.....	170	18	188
December.....	157	15	172
Total	2,386	268	2,654

NUMBER OF PERSONS SENT TO WORKHOUSE AND
HOUSE OF CORRECTION FOR THE PAST
SEVENTEEN YEARS.

1882.

Sent to Workhouse.....	1,514
Sent to House of Refuge and Correction.....	60
	1,574
Total.....	

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Sent to Workhouse.....	1,507
Sent to House of Refuge and Correction.....	114
	1,621
Total.....	

1884.

Sent to Workhouse.....	1,812
Sent to House of Refuge and Correction	114
	1,926
Total.....	

1885.

Sent to Workhouse.....	2,098
Sent to House of Refuge and Correction	85
	2,183
Total.....	

1886.

Sent to Workhouse.....	1,829
Sent to House of Refuge and Correction	68
	1,897
Total.....	

1887.

Sent to Workhouse.....	1,981
Sent to House of Refuge and Correction	63
	2,044
Total.....	

1888.

Sent to Workhouse.....	2,022
Sent to House of Refuge and Correction	37
	2,059
Total.....	

DEPARTMENT OF POLICE.

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1889.

Sent to Workhouse.....	3,038
Sent to House of Refuge and Correction	49
Total.....	3,087

1890.

Sent to Workhouse.....	2,660
Sent to House of Refuge and Correction	58
Total.....	2,718

1891.

Sent to Workhouse.....	3,105
Sent to House of Refuge and Correction	42
Total.....	3,146

1892.

Sent to Workhouse.....	2,737
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1893.

Sent to Workhouse.....	2,462
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1894.

Sent to Workhouse.....	2,872
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1895.

Sent to Workhouse.....	3,120
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1896.

Sent to Workhouse.....	3,548
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1897.

Sent to Workhouse.....	3,233
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1898.

Sent to Workhouse.....	2,654
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DEPARTMENT OF POLICE.

MISCELLANEOUS.

Months.	Abortion.	Accidents Reported.	Accidentally Killed.	Accidents to Persons.	Assault to Kill.	Assaulted Persons.	Attempted Burglaries.	Attempt to Rape.	Attempted Robberies.	Arson.	Articles Lost.	Articles Found.	Animals Stray.	Animals Found.	Bicycle Accidents.	Bodies Found.	Burglaries.	Children Deserted.	Cutting Array.	Doors Found Open.	Drowned.	Fires Reported.	House Breaking.	Insane Persons Picked Up.	Lights Reported Out.			
																									Gas.	Vapor.	Electric.	
January			3	27	7	4	1	2	17	17	17	16	11				49		3	86	1	72	10	2	292	6,107	80	
February			2	25	2	2	4	1	17	18	7	8	1				40	1	2	60	2	55	3	5	209	9,392	65	
March			4	34	4	2	1	3	19	19	12	12				1	49			75	1	60	15	2	293	8,599	114	
April	1		3	38	3		1	2	3		16	18	14	18	4	2	40		5	93		78	17		198	2,247	88	
May		8	7	57	8	2		4	7	1	14	25	19	22	5	7	34		3	82	3	70	26	1	220	518	80	
June			6	53	3			2	5		29	14	28	29	7	3	35		3	68	5	74	16		205	571	21	
July		2	19	53	1	2	2		5	1	21	18	27	30	4	6	25			5	57	12	120	14	1	199	1,380	101
August			7	51		6	2	1	4		19	14	21	25	7	1	45		2	56	2	76	3		133	1,721	23	
September			1	38		6	2	1	4		21	10	25	19	1	1	49		3	54	1	76	8		466	1,198	322	
October			5	42		8	1		4		11	13	29	30	3	2	51		7	70		73	14		349	1,380	74	
November			16	39		2	7	2	3		19	19	28	23	2	2	51		3	91		86	3		254	2,055	84	
December			11	48		5	3		1	3	17	27	18	21			46	1		93		94	20	1	490	1,680	37	
Total	1	5	264	505	1	51	27	6	21	43	2	220	202	244	248	31	25	514	2	36	886	27	324	149	12	3,506	86,096	1,084

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Reports Received and Referred to

Months.	Reports Received and Referred to																										
	Kidnaping.	Horse Stealing.	Missing Persons.	Missing Persons Found.	Murders.	Persons taken to Hospitals.	Pockets Picked.	Rape.	Robberies.	Railroad Accidents.	Runaways.	Shooting Affrays.	Blak Persons Found on Street.	Stabling Affrays.	Gulldies.	Sudden Deaths.	Street Railroad Accidents.	Windows Found Open.	Director of Public Works.	Director of Fire.	Director of Charities.	Board of Elections.	Inspector of Buildings.	Superintendent of Police Telegraph.	Postoffice Department.	Humane Agent.	Examiner of Engineers.
January.....	1	11	234	57	6	314	67	4	77	59	70	23	26	12	45	63	126	74	2,600	1	2	1	467	.....	1	4	1
February.....	1	1	23	3	1	15	2	1	4	3	2	3	1	.....	1	3	8	6	93	.....	.....	.....	2	.....	.....	1	.....
March.....	15	1	15	1	.....	15	4	.....	2	7	11	1	2	.....	5	4	4	8	86	.....	.....	1	.....	.....	.....	1	.....
April.....	1	26	3	29	7	29	7	.....	10	1	5	3	5	1	5	6	8	5	211	.....	.....	.....	.....	.....	.....	.....	.....
May.....	20	2	.....	32	4	32	4	1	13	8	9	1	.....	1	6	.....	19	6	298	.....	.....	.....	.....	.....	.....	.....	.....
June.....	30	6	1	40	5	40	5	.....	1	7	6	.....	1	.....	3	8	10	6	189	.....	1	.....	.....	.....	.....	1	.....
July.....	2	26	6	27	6	27	6	.....	6	3	3	2	1	8	9	11	4	179	.....	.....	.....	.....	.....	.....	.....	.....	.....
August.....	2	17	6	31	2	31	2	1	5	6	10	2	5	5	3	5	9	6	112	.....	.....	.....	460	.....	.....	.....	.....
September.....	1	18	7	20	14	20	14	.....	5	3	4	5	2	.....	5	4	11	6	154	.....	.....	.....	.....	.....	.....	.....	.....
October.....	2	17	4	36	3	36	3	.....	6	6	6	1	2	1	2	5	11	6	163	.....	1	.....	2	.....	.....	1	.....
November.....	1	1	8	3	2	22	8	.....	8	6	6	.....	1	2	3	7	16	5	131	.....	.....	.....	.....	1	.....	.....	.....
December.....	1	1	17	8	1	29	6	1	11	6	4	3	4	1	4	4	11	5	71	.....	.....	.....	1	.....	.....	.....	.....
Total.....	1	11	234	57	6	314	67	4	77	59	70	23	26	12	45	63	126	74	2,600	1	2	1	467	1	4	1

Report of the Detective Department.

CLEVELAND, O., January 1, 1899.

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This shows an increase over last year's report, and was accomplished by much hard labor and frequently required the men to work overtime in many cases, which was willingly done in order to obtain the desired results.

I also attribute a great part of this success to the harmonious and friendly feeling which exists throughout the whole Department and a willingness to assist one another in the performance of their duty.

I would recommend at this time that five more men be added to this Department, as proper attention cannot always be given to the complaints made by our citizens.

The force of to-day is the same in number as it was twenty years ago, while the city has doubled in population and territory. Much of the men's time is required in Police and Criminal Courts, and bicycle thieves have added much labor to the Department. Many of them have been arrested and convicted and 102 of the stolen wheels recovered and returned to the owners.

I desire to thank the men of this Department for their services rendered and the united efforts on their part to accomplish above results.

I also wish to thank you for the valuable assistance, wise counsel and advice given, and hope that our close and friendly relations may continue in the future as they have in the past.

I am,

Respectfully yours,

J. J. LOHRER,

Capt. of Detectives.

Report of Emigrant Division.

CLEVELAND, O., January 1, 1899.

E. A. Abbott, Director of Police.

SIR:—During the year ending December 31, 1898, two thousand five hundred and twenty-six emigrants arrived on the different rail-roads and settled in this city, of the different nationalities, as follows:

Nativity.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Arabia									4			11	15
Austria	2		5	4		4			12		7	2	36
Bohemia		4	6	21	34	19	13	25	10	15	26	12	185
England		2		7			4	6		9	2	6	36
France	2		2										4
Germany.....	15	39	36	36	103	40	25	40	30	24	28	16	432
Hungary.....	4	16	82	45	48	12	8	33	27	12	21	5	313
Ireland		9	13	10	78	23	18	11	8	17	21		206
Italy	9	15	26	45	29	13	26	19	6	19	51	43	301
Poland.....	7	38	51	67	83	48	85	45	47	29	68	55	623
Russia	5	7	17	3	55	25	10	13	24	6		14	179
Slavonia.....	7	17	1	5	17		12	29	11	19	38	15	166
Sweden		6	5		4	2	3	1	2		4		27
Total	51	153	244	244	451	186	204	222	181	150	261	179	2,526

Respectfully,

FRANK KULAS,
MATTHEW MARESH,
JOSEPH STADLER,
GEO. W. CAREY.

Patrol System.

JANUARY 1, 1899.

Capt. E. A. Abbott, Director of Police.

SIR:—The following report of the workings of the Police Patrol Service for the year ending December 31, 1898, is herewith respectfully submitted.

J. MURPHY,

Supt. Patrol System.

This branch of service comprises one fully equipped operating room at the Central Police Station, one complete operating switchboard each at the Sixth and Tenth Precinct Police Stations, 6 patrol wagons, 5 patrol stations, four horses in each station, 79 patrol boxes of the Interstate System, 22 patrol boxes of the Gamewell System and 20 boxes of the National System, 87 telephones and 420 miles of wire; the whole requiring the service of one superintendent, three operators and two linemen, four of whom are patrolmen detailed for such service, and six patrolmen at each Patrol Station, two of whom are detailed as drivers at each station.

DEPARTMENT OF POLICE.

THE WORKINGS OF THIS DEPARTMENT FOR THE YEAR HAVE BEEN AS FOLLOWS:

Months.	Calls.			Mileage.	Wagon Numbers.					Prisoners.		Transfers.		Calls.		Runs, but no Prisoners.	Transfer of Property.
	Box.	Telephone.	Total.		1	2	3	4	5	Males.	Females.	Males.	Females.	Ambulances.	To County Jail.		
January	453	270	723	1,282	340	105	139	75	64	495	75	372	26	6	43	15	.....
February	386	210	576	1,077½	285	87	100	61	43	398	49	226	25	2	46	.....	12
March	472	285	757	1,408½	371	186	131	89	50	514	77	286	37	14	48	31	27
April	525	317	842	1,635½	374	135	145	124	64	595	59	513	35	8	50	34	.....
May	569	296	864	1,752½	446	109	123	117	69	666	89	492	25	8	57	32	36
June	518	306	824	1,690½	408	128	102	118	68	556	81	505	26	6	40	29	32
July	604	304	908	1,770	457	107	154	110	90	649	143	526	27	3	43	38	34
August	570	301	871	1,657½	462	118	143	73	75	613	124	576	41	10	66	32	22
September.....	556	280	846	1,404	417	101	151	120	57	686	98	707	39	9	49	28	28
October.....	600	315	915	1,643½	495	110	144	109	57	663	76	537	32	9	60	32	40
November	486	265	751	1,323½	399	107	132	66	47	540	80	268	18	2	53	33	34
December	447	268	715	1,348½	357	105	124	68	61	405	70	383	26	7	52	40	24
Total	6,166	3,426	9,592	18,003½	4,811	1,348	1,588	1,110	735	6,810	1,016	5,400	357	84	567	344	280

Report of the Police Surgeon.

CLEVELAND, O., January 1, 1899.

Capt. E. A. Abbott, Director of Police.

SIR:—I have the honor to submit the following report as Police Surgeon for the year ending December 31, 1898:

Five deaths occurred during the year, viz: Sergeant Wm. Schneider, July 11, 1898; Patrolman James Reddy, September 14, 1898; Joseph F. Spurney, December 12, 1898, while in active service, and Wm. J. Flanigan, February 11, 1898, and Christ Hennis, June 18, 1898, while on Pension Roll.

The total number of days lost by sickness from all causes during the year was 2,409, and by reason of disability, 429; total, 2,838.

CAUSES OF SICKNESS.

Cause of Sickness.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Alcoholism					4								4
Asthma			6	8					3	6			23
Bolls				7	9								16
Bronchitis			17	23	25				20	6			91
Cold	56	96	67	45	24	30	27	24	23	75	43		510
Cramps							36	14					50
Diarrhoea					4		7	8					19
Fever, Typhoid	9												9
Heart trouble							10	31	30	31	15		117
Injury	38	11	18	18	17	19	35	41	48	8	87	89	429
Kidney complaint		2	6	3				29	19				59
La grippe											30	381	411
Lumbago				3	3								6
Malaria	30	2		9	15	1	10						67
Orchitis			2		4								6
Neuralgia	6	26	31	30	33	4		3				8	141
Pneumonia	74	27			8						22	31	162
Phlebitis					26	26							52
Pleurisy	14				3								17
Rheumatism	52	25	36	26	33	58	38	24	45	31		17	394
Rupture										27			27
Lung trouble	11	5		30	39	12							97
Rheumatic gout	11						10	10			26	31	89
Quinsy	8												8
Sore throat			4										4
Shingles				3									3
Stomach trouble.....		6		7	14	5	6						38
Total.....	309	200	187	211	261	155	179	184	188	184	223	557	2,538
Number of men sick.....	50	45	42	41	40	23	39	34	24	40	31	98	503
Number of professional visits....	164	87	64	76	83	58	73	67	60	63	58	186	1,039

POPULATION OF THE CITY.

Census January 1, 1880.....	158,207
Census January 1, 1881.....	166,413
Census January 1, 1882.....	185,851
Census January 1, 1883.....	194,684
Census January 1, 1884.....	200,426
Census January 1, 1885.....	205,446
Census January 1, 1886.....	214,013
Census January 1, 1888.....	230,000
Census January 1, 1889—Estimated.....	250,000
Census July 15, 1890—Taken by the Police.....	269,073
Census January 1, 1893—Estimated.....	310,000
Census January 1, 1894—Estimated.....	325,000
Census September 8, 1895—Taken by the Police.....	330,279
Census January 1, 1897—Estimated.....	360,000
Census January 1, 1898—Estimated.....	380,000
Census July, 1898—Taken by the Police.....	355,292

The Cleveland Police Pension Fund.

The following persons constitute the Trustees of this fund:

ROBERT E. McKISSON, Mayor and President.

MINER G. NORTON, Director of Law.

E. A. ABBOTT, Director of Police.

MEMBERS OF THE FORCE.

LIEUTENANT WILLIAM JENKIN.

PATROLMAN PHILIP SIEGRIST.

PATROLMAN M. H. STOFER.

JOHN VANEK, Secretary.

The following Officers are on the Pension Roll:

Rank.	Name.	Date of Appointment.	Placed on Pension Roll.
Superintendent.....	Henry Hoehn	May 1, 1866.....	Aug. 16, 1896.
Deputy Supt.....	James McMahon.....	May 1, 1866.....	July 11, 1896.
Captain.....	F. R. Humphrey	Sept. 7, 1871.....	Dec. 1, 1894.
Lieutenant	W. A. Sherman.....	Nov. 6, 1872.....	Apr. 1, 1894.
"	Frank Wagner	June 23, 1869.....	July 1, 1894.
"	A. Eitelman	May 1, 1866.....	Jan. 28, 1895.
"	John Barrow	Aug. 8, 1867.....	July 1, 1895.
"	Geo. J. Griffin.....	July 12, 1870.....	July 20, 1897.
"	Patrick Corkill.....	Apr. 13, 1869.....	Jan. 1, 1898.
"	E. T. Granger.....	Sept. 7, 1871.....	Jan. 10, 1898.
"	Jacob Stein.....	July 18, 1868.....	Feb. 1, 1898.
"	Conrad Koch	May 30, 1866.....	Dec. 16, 1898.
Detective.....	Francis Douglass.....	Nov. 13, 1871.....	June 4, 1894.
"	Farrell Gallagher	Sept. 7, 1871.....	Jan. 15, 1896.
"	A. A. Lawrence	May 1, 1866.....	Oct. 1, 1897.
Sergeant	John Williams	Jan. 31, 1871.....	June 15, 1892.
"	E. W. Shipman	Apr. 20, 1872.....	June 15, 1892.
"	H. A. Cordes	July 29, 1868.....	May 1, 1895.
"	D. W. McCready	Mar. 6, 1873.....	Jan. 21, 1897.
"	G. F. Meg	Aug. 3, 1881.....	Feb. 6, 1897.
"	J. C. Denzer.....	Nov. 27, 1873.....	Oct. 1, 1897.
Patrolman	Jacob Meyer	Nov. 13, 1871.....	Mar. 6, 1888.
"	Charles Eocard	May 8, 1868.....	Mar. 6, 1888.
"	Richard Dunn.....	May 1, 1866.....	May 1, 1888.
"	Kilian Dienst	May 1, 1866.....	May 1, 1888.
"	John Faron	May 1, 1866.....	May 1, 1888.
"	J. P. Bramley	Nov. 2, 1871.....	May 1, 1888.
"	Wm. Sorge	Nov. 13, 1881.....	May 1, 1888.
"	Geo. W. Willis	May 1, 1866.....	May 1, 1888.
"	James McNally	Mar. 15, 1887.....	Apr. 7, 1891.
"	D. J. Cook	Sept. 16, 1885.....	July 1, 1891.
"	Wm. Vogel.....	July 21, 1871.....	Jan. 3, 1894.
"	Paul J. Luehrs	Apr. 28, 1872.....	Mar. 5, 1894.

The following Officers are on the Pension Roll—Concluded:

Rank.	Name.	Date of Appointment.	Placed on Pension Roll.
Patrolman	S. L. Miller.....	Jan. 25, 1872.....	July 1, 1894.
"	A. C. McElroy.....	July 16, 1889.....	Feb. 6, 1895.
"	Hugh McTigue.....	July 16, 1889.....	Mar. 17, 1895.
"	Jacob Ganss.....	May 30, 1866.....	Apr. 6, 1895.
"	J. T. Bashold.....	Jan. 8, 1875.....	Jan. 1, 1896.
"	P. Haggerty.....	May 1, 1866.....	Jan. 1, 1896.
"	John H. Mangan	Sept. 18, 1875.....	Feb. 1, 1896.
"	George Domino.....	Jan. 17, 1875.....	June 10, 1896.
"	John McCormack	Apr. 3, 1874.....	Dec. 16, 1896.
"	F. J. Lambert.....	Nov. 2, 1871.....	Jan. 1, 1897.
"	A. J. Marx	Sept. 14, 1870.....	Jan. 16, 1897.
"	B. Rosenfelder	May 1, 1866.....	May 1, 1897.
"	F. C. Lauser	Nov. 23, 1872.....	June 1, 1897.
"	M. F. Silsby.....	Mar. 26, 1873.....	Apr. 1, 1898.
"	C. C. Thomas	Sept. 21, 1872	Apr. 16, 1898.

The following Officers were retired from active service and were placed on the Police Pension Roll in 1898 :

Lieutenant Patrick Corkill, having served more than the required twenty-five years.

Lieutenant E. T. Granger, having served more than the required twenty-five years.

Lieutenant Jacob Stein, having served more than the required twenty-five years.

Patrolman No. 92, M. F. Silsby, having served more than the required twenty-five years.

Patrolman No. 15, C. C. Thomas, having served more than the required twenty-five years.

Lieutenant Conrad Koch, having served more than the required twenty-five years.

OBITUARY.

W. J. Flanigan, on Pension Roll; appointed Patrolman May 23, 1879; retired on Pension December 1, 1895; died February 11, 1898.

Christ Hennis, on Pension Roll; appointed Patrolman September 23, 1879; retired on Pension April 22, 1897; died June 18, 1898.

Wm. Schneider, Sergeant in active service; appointed Patrolman June 3, 1881; died July 11, 1898.

James Reddy, in active service; appointed Patrolman June 6, 1894; died September 14, 1898.

Joseph F. Spurney, in active service; appointed Patrolman January 13, 1897; died December 12, 1898.

REPORT OF THE RESOURCES AND DISBURSEMENTS OF THE CLEVELAND POLICE PENSION FUND.

FOR THE YEAR ENDING DECEMBER 31, 1898.

1896.	RESOURCES.		
Jan. 1.....	Balance	\$.....	\$ 118,085 15
" 1.....	Interest from Society for Savings, 6 mo., 4%.....	705 95	
" 1.....	Interest from Citizens Sav. & Loan Ass'n., 6 mo., 4%.....	538 03	
" 1.....	Interest from Savings & Trust Co., 6 mo., 4%.....	434 17	
" 1.....	Interest from Cleveland Trust Co., 6 mo., 4%.....	436 70	
" 6.....	Assessment from Pay-Roll for December, 1897.....	183 26	
" 15.....	Donation from the United Banking & Savings Co....	100 00	
" 24.....	Marshal fees in Police Court, City cases, for Dec., 1897.....	133 82	
" 24.....	Officers' fees in Police Court, City cases, for Dec., 1897.....	210 00	
" 27.....	From D. C. Schilk, Frank Fuller, John Sheridan, C. D. Conklin and John F. Jones, as special policemen.....	30 00	
" 27.....	Sale of old iron at Central Station.....	1 15	
" 31.....	Marshal fees in Police Court, State cases, for Nov., 1897.....	39 06	
" 31.....	Officers' fees in Police Court, State cases, for Nov., 1897.....	101 97	
" 31.....	Marshal fees in Police Court, State cases, for Dec., 1897.....	26 02	
" 31.....	Officers' fees in Police Court, State cases, for Dec., 1897.....	31 68	
Feb. 7.....	Assessment from Pay-Roll for January.....	182 71	
" 7.....	Marshal fees, Police Court and Criminal Court, Sept. term.....	83 80	
" 7.....	Officers' fees, Police Court and Criminal Court, Sept. term.....	527 00	
" 7.....	Fine of Pat. L. Sebelin.....	25 00	
" 7.....	From John Galliford, as special policeman.....	5 00	
" 18.....	Marshal fees, in Police Court, City cases, for Jan....	87 37	
" 18.....	Officers' fees, in Police Court, City cases, for Jan....	178 50	
" 23.....	Fine of Pat. D. J. Heffron.....	25 00	
	<i>Forward</i>		

POLICE PENSION FUND.—Continued.

1898.	RESOURCES.	
	<i>Forward</i>	\$.....
Feb. 23.....	From Wm. Hogan and H. Lambert as special policemen	10 00
" 26.....	Interest on \$10,000 City bonds, 4½, 6 mo.....	200 00
Mar. 7.....	Assessment from Pay-Roll for February.....	183 20
" 10.....	Marshal fees in Police Court, City cases, for Feb.....	80 25
" 10.....	Officers' fees in Police Court, City cases, for Feb.....	122 50
" 18.....	Marshal fees in Police Court, State cases, for Jan.....	38 33
" 18.....	Officers' fees in Police Court, State cases, for Jan.....	36 63
" 18.....	Marshal fees in Police Court, State cases, for Feb.....	20 48
" 18.....	Officers' fees in Police Court, State cases, for Feb.....	41 58
" 30.....	Fine of Pat. Jas. Bartunek.....	10 00
" 30.....	From Oscar Cook, Henry Fight, as special policemen	10 00
" 30.....	From Pat. Wilmore and Lacey, 15¢ of a reward.....	3 75
Apr. 7.....	Assessment from Pay-Roll for March.....	183 26
" 8.....	Marshal fees in Police Court, City cases, for March.....	100 23
" 8.....	Officers' fees in Police Court, City cases, for March.....	171 00
" 27.....	Foreign Insurance tax	25,624 26
May 9.....	Assessment from Pay-Roll for April.....	182 26
" 10.....	Fine of Pat. D. Cantillon.....	50 00
" 10.....	Fine of Pat. L. Sebellin.....	50 00
" 10.....	Fine of Pat. M. Reddy	10 00
" 10.....	Fine of Pat. A. Ritsi.....	15 00
" 10.....	From W. Chapman, reward.....	5 00
" 10.....	From D. D. Berry and W. W. Anderron, as special policemen	20 00
" 10.....	Error in Pay-Roll for March.....	67
" 27.....	Marshal fees in Police Court, City cases, for April.....	98 87
" 27.....	Officers' fees in Police Court, City cases, for April.....	177 50
June 7.....	Assessment from Pay-Roll for May.....	188 26
" 14.....	Marshal fees, Police Court, City cases, for May.....	143 27
	<i>Forward</i>.....	.....

DEPARTMENT OF POLICE.

785

POLICE PENSION FUND.—Continued.

RESOURCES.		
	<i>Forward</i>	\$.....
June 14.....	Officers' fees, Police Court, City cases, for May.....	208 80
" 14.....	Marshal fees, Police Court, State cases, for March....	28 88
" 14.....	Officers' fees, Police Court, State cases, for March....	16 83
" 14.....	Marshal fees, Police Court, State cases, for April....	28 83
" 14.....	Officers' fees, Police Court, State cases, for April.....	40 59
" 22.....	Marshal fees in Criminal Court, Jan. and Apr. terms	86 90
" 22.....	Officers' fees in Criminal Court, Jan. and Apr. terms.	869 00
" 27.....	From L. Y. Porter, as special policeman.....	5 00
" 27.....	From Peter Jensik, as special policeman.....	10 00
" 27.....	Fine of Pat. Jas. Partunek	15 00
" 27.....	Fine of Pat. G. H. Fechner.....	15 00
" 27.....	Reward of Stanton and Walker.....	5 00
" 30.....	Interest from City Treasurer, 6 mo.....	109 53
July 1.....	Interest from Society for Savings, 6 mo., 4%.....	700 06
" 1.....	Interest from Citizens Savings & Loan Association, 6 mo., 4%	549 12
" 1.....	Interest from Savings & Trust Co., 6 mo., 4%.....	472 79
" 1.....	Interest from Cleveland Trust Co., 6 mo., 4%.....	469 22
" 7.....	Assessment from Pay-Roll for June.....	183 26
" 12.....	Marshal fees in Police Court, City cases, for June....	106 22
" 12.....	Officers' fees in Police Court, City cases, for June....	183 00
" 22.....	Marshal fees in Police Court, State cases, for May...	25 90
" 22.....	Officers' fees in Police Court, State cases, for May....	44 55
" 22.....	Marshal fees in Police Court, State cases, for June...	36 65
" 22.....	Officers' fees in Police Court, State cases, for June...	47 52
" 22.....	Donation from Peter Carroll.....	5 00
Aug. 8.....	Assessment from Pay-Roll for July.....	181 71
" 16.....	From Det. Jas. Doran, 15% of a reward in Gibbs case	90 11
" 16.....	Fine of Pat. Albert Ritsi.....	25 00
" 26.....	Assessment from Pat. Jas. Reddy.....	50
	<i>Forward</i>.....	.....

POLICE PENSION FUND.—Continued.

1898.	RESOURCES.	
	<i>Forward</i>	\$.....
Aug. 26.....	Assessment from Pat. Wm. Schempp.....	50
" 26.....	From M. Van Fosson, as special policeman.....	10 00
" 26.....	Fine from Pat. Jos. F. Spurney.....	5 00
" 26.....	Reward from Capt. J. J. Lohrer.....	10 00
Sept. 7.....	Assessment from Pay-Roll for August.....	181 71
" 8.....	Marshal fees, at Workhouse, in State cases, from January 1, 1894, to May 1, 1898.....	301 83
" 8.....	Officers' fees, at Workhouse, in State cases, from January 1, 1894, to May 1, 1898.....	475 80
" 9.....	Interest on \$10,000 City Bonds, 6 mo., 4%.....	200 00
" 12.....	Marshal fees in Police Court, City cases, for July.....	112 52
" 12.....	Officers' fees in Police Court, City cases, for July.....	192 50
" 15.....	Marshal fees in Police Court, City cases, for August.....	134 43
" 15.....	Officers' fees in Police Court, City cases, for August.....	247 50
" 20.....	Marshal fees in Police Court, State cases, for July.....	22 62
" 20.....	Officers' fees in Police Court, State cases, for July.....	16 83
" 20.....	Marshal fees in Police Court, State cases, for August.....	33 34
" 20.....	Officers' fees in Police Court, State cases, for August.....	23 76
" 26.....	From Leon Jablonski, as special policeman.....	10 00
" 26.....	From Frederick Pokart, as special policeman.....	10 00
" 26.....	From Pat. J. Ginnely, for fixing flag staff 5th Regt..	5 00
" 26.....	Reward from Davis and Hunt for recovery of a bicycle.....	10 00
" 26.....	Assessment from Pat. Jas. Reddy.....	50
Oct. 6.....	Assessment from Pay-Roll for September.....	181 71
" 6.....	Fine of Pat. Geo. A. Strief.....	50 00
" 6.....	Donation from the Eberhard Mfg. Co.....	10 00
" 21.....	Marshal fees in Police Court, City cases, for Sept.....	127 27
" 21.....	Officers' fees in Police Court, City cases, for Sept.....	204 00
Nov. 7.....	Assessment from Pay-Roll for Oct.....	183 26
" 21.....	Fine from Pat. F. E. Brown.....	25 00
	<i>Forward</i>.....	.....

POLICE PENSION FUND.—Continued.

1898.	RESOURCES.		
	<i>Forward</i>	\$.....	
Nov. 21.....	From G. A. Domino and Chas. Goede, as special policemen.....	20 00	
" 21.....	Marshal fees in Police Court, City cases, for Oct.....	123 40	
" 21.....	Officers' fees in Police Court, City cases, for Oct.....	216 50	
" 30.....	Marshal fees in Police Court, State cases, for Sept...	29 37	
" 30.....	Officers' fees in Police Court, State cases, for Sept...	16 83	
" 30.....	Marshal fees in Police Court, State cases, for Oct....	19 07	
" 30.....	Officers' fees in Police Court, State cases, for Oct....	20 79	
Dec. 7.....	Assessment from Pay-Roll for November.....	182 26	
" 12.....	Marshal fees in Police Court, City cases, for Nov....	86 75	
" 12.....	Officers' fees in Police Court, City cases, for Nov....	145 50	
" 12.....	Marshal fees in Criminal Court, April and September terms.....	117 50	
" 12.....	Officers' fees in Criminal Court, April and September terms.....	466 00	
" 22.....	From Pat. Geo. A. Strief, on account of fine.....	20 00	
" 22.....	From Pat. Joseph Ralph, on account of fine.....	12 50	
" 22.....	From Wm. Tucker, on account of fine.....	12 50	
" 22.....	From Pat. F. L. Schlegel, on account of fine.....	20 00	
" 22.....	From Pat. James Bartunek, fine	26 00	
" 22.....	From Pat. J. A. Conrad, fine.....	10 00	
" 22.....	From Pat. S. S. Minor, fine.....	15 00	
" 22.....	From Pat. Albert Isaac, reward.....	10 00	
" 22.....	From Pat. Chas. Creter, from horse show.....	20 00	
" 22.....	From Joseph R. Slayton, Jr., as special policeman...	10 00	
" 31.....	Interest on balance in City Treasury	146 12	
	Total resources in 1898.....		\$ 159,011 28

POLICE PENSION FUND.—Continued.

1898.	DISBURSEMENTS.		
	<i>Forward</i>	\$.....	\$ 159,011 28
Feb. 1.....	Pension Pay Roll for January.....	2,478 67	
" 1.....	For rent of vault	5 00	
Mar. 7.....	Pension Pay Roll for February.....	2,525 67	
" 7.....	To Mrs. W. J. Flanigan on death of Pat. Flanigan...	500 00	
April 7.....	Pension Pay Roll for March	2,506 67	
May 9	Pension Pay Roll for April.....	2,581 67	
June 7.....	Pension Pay Roll for May.....	2,806 67	
July 7.....	Pension Pay Roll for June	2,586 67	
" 7.....	To children of Pat. C. Hennis, deceased.....	500 00	
Aug. 8.....	Pension Pay Roll for July	2,586 67	
" 8.....	To Mrs. Wm. Schneider on death of Sergt. Wm. Schneider.....	500 00	
Sept. 7.....	Pension Pay Roll for August	2,556 67	
Oct. 6.....	Pension Pay Roll for September.....	2,556 67	
Nov. 7.....	Pension Pay Roll for October	2,556 67	
Dec. 7.....	Pension Pay Roll for November.....	2,556 67	
			29,574 37
	Balance January 1st, 1899		\$ 129,436 91

POLICE PENSION FUND.—Continued.

RECAPITULATION.

RESOURCES.		
Balance January 1, 1898.....		\$118,085 15
Marshal fees in Police Court, City cases.....	\$ 1,329 40	
Officers' fees in Police Court, City cases.....	2,256 80	
Marshal fees in Police Court, State cases.....	342 55	
Officers' fees in Police Court, State cases.....	439 56	
Marshal fees in Criminal Court and Grand Jury.....	288 20	
Officers' fees in Criminal Court and Grand Jury.....	1,852 00	
Marshal fees in State cases, collected at Workhouse	301 83	
Officers' fees in State cases, collected at Workhouse	475 80	
Commissions of Special Policemen	150 00	
Donations	115 00	
Interest on moneys invested	4,961 69	
Fines of officers.....	435 00	
Rewards.....	158 86	
Assessments from pay-rolls.....	2,193 36	
Sales of unclaimed property.....	1 82	
Foreign insurance tax.....	25,624 26	
		40,926 13
Total		\$159,011 28
DISBURSEMENTS.		
Pay-rolls of officers on Pension Roll.....	\$ 28,069 37	
Final pensions on death of officers	1,500 00	
Rent of vault for safe keeping of bonds	5 00	
Total		29,574 37
Balance January 1, 1899.....		\$129,436 91

POLICE PENSION FUND.—Concluded.

RECAPITULATION.

ASSETS.		
10 City of Cleveland bonds, due March 1, 1900, at \$1,000	\$ 10,000 00	
Deposited in the Society for Savings.....	33,703 43	
Deposited in the Citizens Savings & Loan Association.....	28,005 16	
Deposited in the Savings and Trust Co.....	27,632 90	
Deposited in the Cleveland Trust Co ..	27,631 64	
Cash in the City Treasury	2,463 78	
Total.....		\$129,436 91

JOHN VANEK,

Secretary of Police.

CLEVELAND, January 1, 1899.

We have personally examined the foregoing report and compared the same with the books of the Police Pension Fund, and do hereby certify the same to be correct.

WM. JENKIN,	} Committee on Finance.
PHIL. SIEGRIST,	
M. H. STOFER,	

DEPARTMENT OF POLICE.

PUBLIC HEALTH DIVISION.

OFFICERS.

EDWARD A. ABBOTT,

Director of Police.

DR. JOHN L. HESS,

Health Officer.

FRANK COMBES,

Secretary.

HENRY C. HOLMDEN,

Desk Officer.

BERTRAM ROBINSON,

Inspector of Plumbing and Sewers.

FRANCIS J. PECK,

Food Inspector.

SANITARY PATROLMEN.

ARMSTRONG, A. T. Wards 3, 4, 5 and 8, and office.
 BARTEL, C. H., Wards 32, 41 and part of 40, and Garbage Boat.
 BEAKEL, H. F. Wards 26 and 27.
 BROWN, T. W., Ass't Plumbing and Sewer Inspector (detailed).
 BUBB, J. C. Wards 28, 29 and 30.
 COLE, S. F. Wards 22 and 23.
 DWYER, J. W. Wards 1, 2, 10 and 11.
 HOLMDEN, H. C. Office (detailed).
 JONES, A. G., Ass't Plumbing and Sewer Inspector (detailed).
 KRASS, JACOB Wards 18 and 19.
 McLAREN, JAS. Smoke Inspector (detailed).
 NEWCOMB, F. E. Wards 20 and 21.
 NEVINS, W. R. Wards 31, 33 and 34.
 PORT, WM. Wards 12, 13, 14, 15, 16 and 17.
 REDINGER, E. W. Wards 37, 38 and part of 42.
 SCHNAUFFER, F. Ward 36, and part of 40 and 42.
 STEARNS, C. H. Wards 35, 39 and part of 42.
 SHANNON, P. Wards 6, 7 and 9.
 VOGT, GEO. Wards 24 and 25.
 WHITMAN, L. C. Special (detailed).

ASSISTANT INSPECTORS OF PLUMBING.

D. K. CAINE,	M. F. RYAN,
P. H. LEVISON,	S. C. ANSELM.

DISTRICT PHYSICIANS.

RULE IV.

DUTIES OF THE DISTRICT PHYSICIANS.

SECTION 2. They shall have an office located within their respective districts, and to the satisfaction of the Director of Police, and keep regular office hours, when and where they can be found by all persons applying to them for treatment, such hours to be from 9 o'clock A. M. to 10 o'clock A. M., and from 3 o'clock P. M. to 4 o'clock P. M. of each day, and such other hours as may be necessary to provide for persons applying for treatment; such offices to have a distinct sign upon them with the words "District Physician," in plain view.

DISTRICT PHYSICIANS.

- District No. 1, A. E. CHATFIELD, M. D., Wards 2, 3, 4 and 5.
- District No. 2, T. W. RANSON, M. D., Wards 6, 8 and 9
- District No. 3, E. MURRAY, M. D., Wards 1, 10, 11 and 12.
- District No. 4, T. S. FIELD, M. D., Wards 7, 18 and 19.
- District No. 5, H. F. BISHOP, M. D., Wards 13, 14, 15, 20 and 21.
- District No. 6, W. A. HOSICK, M. D., Wards 16, 17, 22 and 23.
- District No. 7, F. W. HERBKERSMAN, M. D., Wards 24 and 25.
- District No. 8, E. C. GARVIN, M. D., Wards 26 and 27.
- District No. 9, F. A. HANDRICK, M. D., Wards 28, 29, 30 and 41.
- District No. 10, W. H. LUCAS, M. D., Wards, 31, 32, 33 and 34.
- District No. 11, M. FRANCISCI, M. D., Wards 35, 36 and 37.
- District No. 12, A. J. Skeel, M. D., Wards 38, 39, 40 and 41.

Report of the Health Officer.

CLEVELAND, O., January 1, 1899.

Hon. E. A. Abbott, Director of Police.

DEAR SIR:—I have the honor to herewith submit to you the report of the Public Health Division of the Department of Police for the year ending December 31, 1898.

It affords me much pleasure to submit to you the following statements on account of their importance from a sanitary standpoint to our municipality. The great public improvements undertaken by the present administration during the past two years are already bearing fruit in that the public health has been so much improved that the mortality rate for the last year has been the lowest in the history of Cleveland. When I had the honor to be appointed health officer of this city the Mayor outlined a general policy that he desired to be vigorously carried out in the Department of Health, to the end that the sanitary condition of the city might be bettered and the public health thereby benefited. This policy has been followed out conscientiously without permitting personal, political, social or other considerations to influence the operation of the division. This is manifest from the fact that while our division has been exceptionally active in performing its functions there has been very little complaint of hardships imposed.

The garbage question, which has been under consideration by the present administration for the last three years, has been happily disposed of by awarding a contract for the collection and disposition of garbage to the Buckeye Reduction Company. This company has been operating since August 22, 1898. During the first two months this company was performing their work a great many complaints were received

that garbage was not being regularly collected and that in some parts of our city the refuse was not being collected at all. Considering that we have a city of 32 square miles and a population approximating 400,000, this company has done fairly well in establishing the organization it now has for conducting its operations. At the end of the first two months the dissatisfaction with the operations of the company was such that the Mayor suggested the advisability of putting in operation a plan for collecting garbage similar to that of the Postal Department for distributing mail, which was to divide the city into districts, giving each garbage collector a given amount of territory over which he was to make a house-to-house canvass for a period of two or three days; the territory thus covered was allotted to him as his sanitary district. The suggestions made by the Mayor I have caused to be adopted. The plan has resulted most satisfactorily, which is evident from the following figures. From the 22d day of August to the 1st day of September the average complaints amounted to 266.86 daily; those for September were 51.53 per day. From this time the Mayor's plan was put in operation, which required about four weeks to complete. During the month of November the average number of complaints amounted to only 4.16 daily, and those of December averaged only 2.29 daily. This, in my judgment, is indeed accomplishing marvelous results, when it is taken into consideration that cities which have had garbage disposal plants in operation for several years have an average of from 8 to 18 complaints per day. Our division is somewhat handicapped in looking after the detailed operations of this work by not having a sufficient number of sanitary patrolmen. The division should have at least six more patrolmen whose sole duty should be to see that the provisions of the specifications regulating this contract are carried out. I most earnestly recommend that you use every possible effort to secure the passage of an ordinance which would permit the appointment of a sufficient number of sanitary patrolmen to properly look after this work before the heated season arrives, as the beneficial results to be derived from the garbage disposal business will depend entirely upon the thoroughness with which the work is performed.

On November 16th there developed a case of small-pox

in our community, between which time and December 31st there developed forty-three (43) cases of small-pox and twenty-seven (27) cases of varioloid. The patients were all taken to our hospital for contagious diseases and all have recovered. This is a record of which our division is justly proud, for the reason that there is no institution of a similar kind which can show better results. While small-pox seems to be epidemic all over the United States and there have been a great many deaths from this disease in other communities, I am disposed to attribute our unsurpassed results in handling this disease to two causes: First, to our plan of treatment and nursing; second, to the new Contagious Disease Hospital constructed by the Director of Charities and Correction, Mr. W. J. Akers, which is built entirely of brick, with cement flooring, with all modern conveniences for heating, plumbing and ventilation. It is built on plans which make it one of the best adapted buildings for contagious diseases that has been constructed up to the present period, being easily kept in a clean and sanitary condition, the temperature easily regulated to the needs of the patients. It is a noticeable fact that the history of pest houses, so-called, has been one of a high rate of mortality. Many of those who have been taken to such institutions have there given up their lives. The record which we have been able to establish in our most admirable hospital is such that when the patients are discharged they speak of it and the care they receive in terms of highest commendation. A physician is kept constantly at the institution, with such assistance as he may need. The institution is furnished with the best articles of diet that the market produces, to all of which those who have been discharged from our care will attest.

On account of a lack of knowledge on the subject of disinfecting materials, an elaborate series of bacteriological examinations were made of the efficiency of formaldehyde by one of the eminent bacteriologists of the city of the various agents advocated for disinfecting purposes. This substance has proven to be the most reliable of any agent in use at the present time. Since we have been in possession of the results of this investigation we are in a position to perform our work in this connection without fear of a subsequent development of disease, obviating the necessity of destroying property that

has been infected. It is therefore with a great deal of satisfaction that I can report to you that where we have disinfected apartments of any kind we have not had a subsequent outbreak of contagion in such apartments.

During the prevalence of contagious or infectious disease our quarantine regulations are such as to stamp out disease in the shortest possible time. Our division, with the co-operation of the Department of Charities and Correction, supplies the necessities of life to persons held in quarantine.

Where nuisances have existed which have been a menace to the public health they have been dealt with vigorously and considerately.

The indigent poor of our city have received the most painstaking care when afflicted with sickness, and medicine has been furnished them gratuitously.

I cannot commend the work performed by our district physicians too highly. They have been most conscientious in performing their work. With their assistance during the months of November and December, 1898, I vaccinated at the expense of this division about 13,000 persons. The able manner in which our medical staff has looked after the interest of those who have come under their care merits the highest praise. During the months the soldiers were returning home from their various camps our medical staff took care of hundreds of the soldiers gratuitously, furnishing them services and medicines without cost, feeling that they were performing a patriotic duty in doing so. While it is true that the hospitals came to the relief of many of those who were afflicted with disease while remaining in camp, yet these same institutions are now making an effort to secure compensation for the care and medicine furnished. But it affords me pleasure to say that our medical department gave their services to the afflicted boys with the same patriotic zeal that enabled our government in so short a time to organize one of the greatest armies our country has yet had. This work was performed by our district physicians without a thought of asking or taking compensation of any kind, feeling that in performing the service allotted to them they were in a measure at least performing a patriotic duty.

I therefore most earnestly thank them one and all for their

hearty support and conscientious assistance rendered our division.

DEATH STATISTICS.

The total number of deaths for the year 1898 were 5,040, as against those for 1897 of 5,007. The death-rate of 1898 was estimated on a population of 370,000, while that for 1897 was based on an estimated population of 350,000. While the number of deaths for 1897 over those of 1896 were 148, it is very gratifying to report to you that the total number of deaths for 1898 over those of 1897 was only 33, giving a death-rate of 13.62 per 1,000, as against 14.3 for 1897. It is my firm belief that when the public improvements now under course of construction have been completed the sanitary condition of our city will be so improved that the death-rate will be reduced to less than 11 per 1,000, which will make our city one of the most healthful in the United States.

BIRTH STATISTICS.

The number of births reported to the Public Health Division for 1898 was 9,146; the number for 1897 was 9,135. These figures do not show the accurate number of births in our city. I am satisfied there is a decided carelessness on the part of physicians and midwives in reporting births.

For relief furnished to the poor; deaths in public institutions; the number of cases of contagious diseases reported, and deaths from the same cause; the number of births in our city; the nativity of decedents; the actual mortality, with enumeration of causes; the total deaths from zymotic diseases, and all causes and classification of causes of deaths, with annual death-rate; number of births per month for the year ending December 31, 1898; the number of nuisances abated, and meteorological summary for Cleveland during the past year, together with the secretary's, plumbing and sewer inspector's report, food inspector's and smoke inspector's reports—I would respectfully refer you to the tables appended.

Respectfully submitted,

J. L. HESS, M. D.,
Health Officer.

Secretary's Report.

Dr. John L. Hess, Health Officer :

DEAR SIR:—I have the honor to herewith respectfully submit to you the Twenty-Sixth Annual Report of the Secretary of the Public Health Division, Department of Police, City of Cleveland, for the year ending December 31st, 1898.

FINANCES.

RECEIPTS.

Balance on hand January 1st, 1898	\$ 2,316.89
City Tax Levy	\$138,029.17
Permits to sell milk	1,674.00
Poultry and Slaughter Licenses	940.00
Death Certificates	169.00
Birth Certificates	13.00
Livery Licenses from City Clerk	1.00
Plumbers' Licenses	26.00
Miscellaneous	2.50
<hr/>	
Total receipts	\$143,171.56

DISBURSEMENTS.

(a) For general expenses	\$ 39,916.92
(b) For garbage expenses	1,455.42
(c) For Food Inspector's office	478.95
<hr/>	
Total disbursements	\$ 41,851.29
<hr/>	
Balance on hand January 1st, 1899	\$101,320.27

The expenses for this Division were incurred as follows:

(a) GENERAL EXPENSES.

Officers' and Patrolmen's salaries	\$35,775 59
Drugs and Medicines	1,479 85
Printing Annual Report for 1897	158 01
Livery Hire	89 00
Miscellaneous expenses	2,414 47
Total	\$39,916 92

(b) GARBAGE EXPENSES.

Removal of garbage from January 1st, 1898, to Sep- tember 28, 1898, 34 2-7 weeks, at \$40 per week, \$	1,371 42
Disinfectants	84 00
Total	\$ 1,455 42

(c) FOOD INSPECTOR'S EXPENSES.

Chemicals, apparatus, supplies and repairs	\$ 478 95
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The following table shows the amounts expended by the Public Health Division for twenty-six years :

1873	\$28,416 14
1874	25,056 58
1875	19,549 38
1876	16,168 65
1877	14,283 18
1878	12,493 71
1879	12,036 52
1880	12,908 95
1881	16,030 99
1882	20,329 32
1883	22,651 73
1884	24,411 07
1885	21,354 13
1886	27,206 67
1887	23,678 67

DEPARTMENT OF POLICE.

1888	\$28,078 82
1889	32,050 39
1890	33,933 76
1891	27,275 13
1892	34,115 07
1893	36,922 22
1894	41,616 06
1895	38,906 35
1896	40,095 72
1897	39,761 66
1898	41,851 29

MORTALITY STATISTICS.

The total number of deaths in the City of Cleveland during the year 1898 was 5,040, an increase of 33 as compared with 1897, but with an increase of population over 1897 of 20,000. For information as to age, color, sex, nativity, cause of death, and social relations of the deceased, the number of deaths per month during the year, and the annual death-rate since 1875, you are respectfully referred to the tables appended.

BIRTH STATISTICS.

The number of births in the city during 1898 was 9,146, being 11 more than occurred in 1897. The tables annexed to this report will inform you as to color, sex, nativity, age of parents, and the comparative number of births monthly, to which you are respectfully referred.

MILK LICENSES.

Milk permits issued during 1898 were:

To persons selling from wagons	601
To persons selling from store and houses	1,073
Total	<u>1,674</u>

A fee of one (\$1.00) dollar was charged for each permit.

SLAUGHTER LICENSES.

During the year ninety-four (94) licenses were issued to slaughter stock, dress poultry, render fats; to engage in the

manufacture or production of fertilizers or glue, and the cleaning or rendering of intestines. For each a fee of ten (\$10.00) dollars was collected.

BIRTH AND DEATH CERTIFICATES.

There were issued during the year one hundred and sixty-nine (169) death certificates and thirteen (13) birth certificates; for which a fee of one (\$1.00) dollar each was charged. Also during the year there were seventy-eight (78) free death certificates and twenty-one (21) free birth certificates issued to the widows and orphans of soldiers.

PERMITS TO REMOVE BODIES.

During 1898 four hundred and eighty-two (482) free permits were issued to remove bodies from this city to other cities and localities.

PRIVY VAULTS.

Free permits were granted during the year for the building of one hundred and sixty-nine (169) privy vaults. These were built in accordance with the plans and specifications furnished by this office.

PLUMBERS' LICENSES.

In accordance with a State law "To Promote the Public Health and Regulate the Sanitary Construction of House-Drainage and Plumbing," passed April 21, 1896 (O. L. Vol. XCII., page 263), the sum of twenty-six (\$26.00) dollars was collected for licenses during the year of 1898, and deposited with the City Treasurer to the credit of the Sanitary Fund. On and after the first day of April, 1898, we ceased collecting for licenses under this law, as it was declared unconstitutional.

LIVERY LICENSES.

In pursuance to the State law governing livery stables passed April 18, 1893 (Local O. L. Vol. XC., p. 110), there was one (1) permit issued in 1898 to the City Clerk by this office on which he granted a license, collecting a fee of one (\$1.00) dollar, the same being credited to the Sanitary Fund

DEPARTMENT OF POLICE.

as per provision of Section 6 of said law. The City Clerk refusing to grant any more licenses on and after the third day of May, 1898, accounts for but one permit being issued by us during the year.

NIGHT SOIL FUND FOR 1898.

Receipts.

Balance in Night Soil Fund Jan. 1, 1898	\$	310.56
9,489½ cu. yds. of night soil, at \$1.90 .	\$18,030.05	
Total	\$18,340.61	

Disbursements.

9,091½ cu. yds. removed, at \$1.90 per	
cu. yd.	\$17,273.85
6 cu. yds. removed, at \$2.12 per	
cu. yd.	12.72
Rebates, 70½ cu. yds., at \$1.90 per cu.	
yd.	133.95
Total	\$17,420.52
Balance on hand Jan. 1, 1899	\$ 920.09

PUBLIC HEALTH DIVISION.

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GARBAGE STATISTICS.

MONTHS. (Aug. 22 to Dec. 31, both inclusive.)	Tons collected and removed.	Average per day.	Complaints for non-collection.	Average per day.
August	189.	21.	2,402	266.88
September	1,325.7	50.98	1,340	51.53
October	1,466.1	56.38	488	18.76
November	1,297.35	51.89	104	4.16
December	1,229.85	47.30	62	2.29
Total tons collected and removed . . .	5,508.00	.....	.....	.....
Av. tons collected and removed per day .	.....	49.17	.....	.....
Total number of com- plaints . . . . .	.....	.....	4,396	.....
Av. number of com- plaints per day . .	.....	.....	.....	39.25

By far the greater number of the August and September garbage complaints, classified "Complaints for Non-Collection," were in reality notifications to this Division that they, the householders, had the requisite garbage cans and were ready for the garbage collectors to call.

The statistical tables accompanying this report contain the full data regarding the medical relief of the Poor, Contagious Diseases, Births, Mortality Statistics, Nuisances Abated, etc. The reports of the Food Inspector, Inspector of Plumbing and Sewers, Special Smoke Inspector, Superintendent of Markets and United States Weather Bureau of Cleveland are also appended.

Thanking the director and you for your many courtesies, I am,

Yours respectfully,

FRANK COMBES,
Secretary.

TABLE NO. 1.
RELIEF TO THE POOR.
Report of District Physicians for 1898.

District No.	District Physicians.	No. of Prescriptions.	No. of Visits.	No. of Patients.	Nativity.					No. of Deaths.
					U. S. and Canada.	Germany.	Ireland.	Bohemia.	Other Foreigners.	
1.....	Dr. A. E. Chatfield	1,982	2,140	671	488	36	67	4	46	3
2.....	Dr. T. W. Ranson.	506	468	304	245	21	34	0	2	5
3.....	Dr. E. Murray.....	494	1,033	516	344	24	30	6	99	5
4.....	Dr. T. S. Field.....	338	334	271	196	31	1	2	32	4
5.....	Dr. H. F. Bishop.....	213	138	85	60	8	8	5	2	0
6.....	Dr. W. A. Hosick.....	882	1,273	349	128	49	25	16	129	12
7.....	Dr. F. W. Herbersman.....	208	183	149	17	13	11	46	55	1
8.....	Dr. C. E. Garvin	706	765	358	248	6	55	7	26	11
9.....	Dr. F. A. Handrich.....	351	484	337	226	15	126	2	16	6
10.....	Dr. W. H. Lucas.....	715	601	201	13	52	113	1	22	1
11.....	Dr. M. Francis.....	618	619	220	136	55	18	.....	11	5
12.....	Dr. F. H. Honecker.....	406	699	219	136	57	5	6	7	9
		7,357	8,747	3,730	2,227	367	493	95	547	62

TABLE NO. 2.

DEATHS REPORTED IN PUBLIC INSTITUTIONS.

Year ending December 31, 1898.	Male.	Female.	Total.
Lakeside Hospital.....	12	7	19
Charity Hospital.....	11	8	19
City Hospital.....	54	25	79
Homeopathic Hospital.....	9	10	19
Cleveland Hospital for Insane.....	16	11	27
St. John's Hospital.....	10	10	20
St. Alexis Hospital.....	36	16	52
St. Clair Hospital.....	11	.....	11
Cleveland General Hospital.....	6	9	15
Deaconess Hospital.....	.....	.....	.....
Small Pox Hospital.....	.....	.....	.....
German Hospital.....	.....	1	1
Home for the Aged Poor.....	8	8	16
Maternity Home.....	8	6	14
Eliza Jennings Home.....	.....	.....	.....
Industrial Home.....	.....	.....	.....
Trinity Church Home.....	.....	.....	.....
Montefiore Home.....	.....	2	2
Altenheim Home.....	.....	.....	.....
Bethany Home.....	.....	.....	.....
Jones' School and Home.....	.....	.....	.....
Home for Aged Women.....	.....	1	1
House of the Good Shepherd.....	.....	2	2
Invalid's Home.....	1	1	2
St. Mary's Asylum.....	.....	.....	.....
St. Joseph's Asylum.....	.....	1	1
Monroe Street Orphan Asylum.....	.....	.....	.....
St. Ann's Infants' Asylum.....	64	42	106
Jewish Orphan Asylum.....	1	2	3
Cleveland Protestant Orphan Asylum.....	.....	.....	.....
Infants' Rest.....	10	4	14
Children's Fresh Air Camp.....	.....	.....	.....
Other Public Institutions.....	4	1	5
United States Marine Hospital.....	4	2	6
Total.....	265	169	434

TABLE NO. 3.
CASES OF CONTAGIOUS DISEASES REPORTED
DURING 1898.

Mumps.	Chicken Pox.	Small Pox.	Variceloid.	Mem. Croup.	Whooping Cough.	Puerperal Fever.	Erysipelas.	Measles.	Typhoid Fever.	Scarlet Fever.	Diphtheria.
.....	67	43	27	74	277	4	11	2,721	280	557	483

DEATHS IN 1898 FROM CONTAGIOUS DISEASES.

Mumps.	Chicken Pox.	Small Pox.	Variceloid.	Mem. Croup.	Whooping Cough.	Puerperal Fever.	Erysipelas.	Measles.	Typhoid Fever.	Scarlet Fever.	Diphtheria.
.....	38	16	.....	8	12	121	29	110

TABLE NO. 4.
BIRTHS AND DEATHS BY MONTHS.

BIRTHS—1896.		DEATHS—1896.	
January	871	January	326
February	735	February	342
March	775	March	491
April	655	April	443
May	732	May	451
June	712	June	412
July	698	July	517
August	734	August	443
September	677	September	399
October	773	October	340
November	855	November	380
December	929	December	496
Total	9,146	Total	5,040

TABLE NO. 5.
NATIVITY OF DECEDENTS.

Year ending December 31, 1898.	Male.	Female.	Total.
Cleveland	1,175	1,032	2,207
Other parts of the United States	561	533	1,094
Germany	377	271	648
Ireland	173	167	340
Canada	31	23	54
England	81	66	147
Bohemia	77	65	142
Poland	23	15	38
Hungary	26	22	48
Other Foreigners	148	93	241
Not Stated	25	12	37
Unknown.....	29	15	44
Total	2,726	2,314	5,040

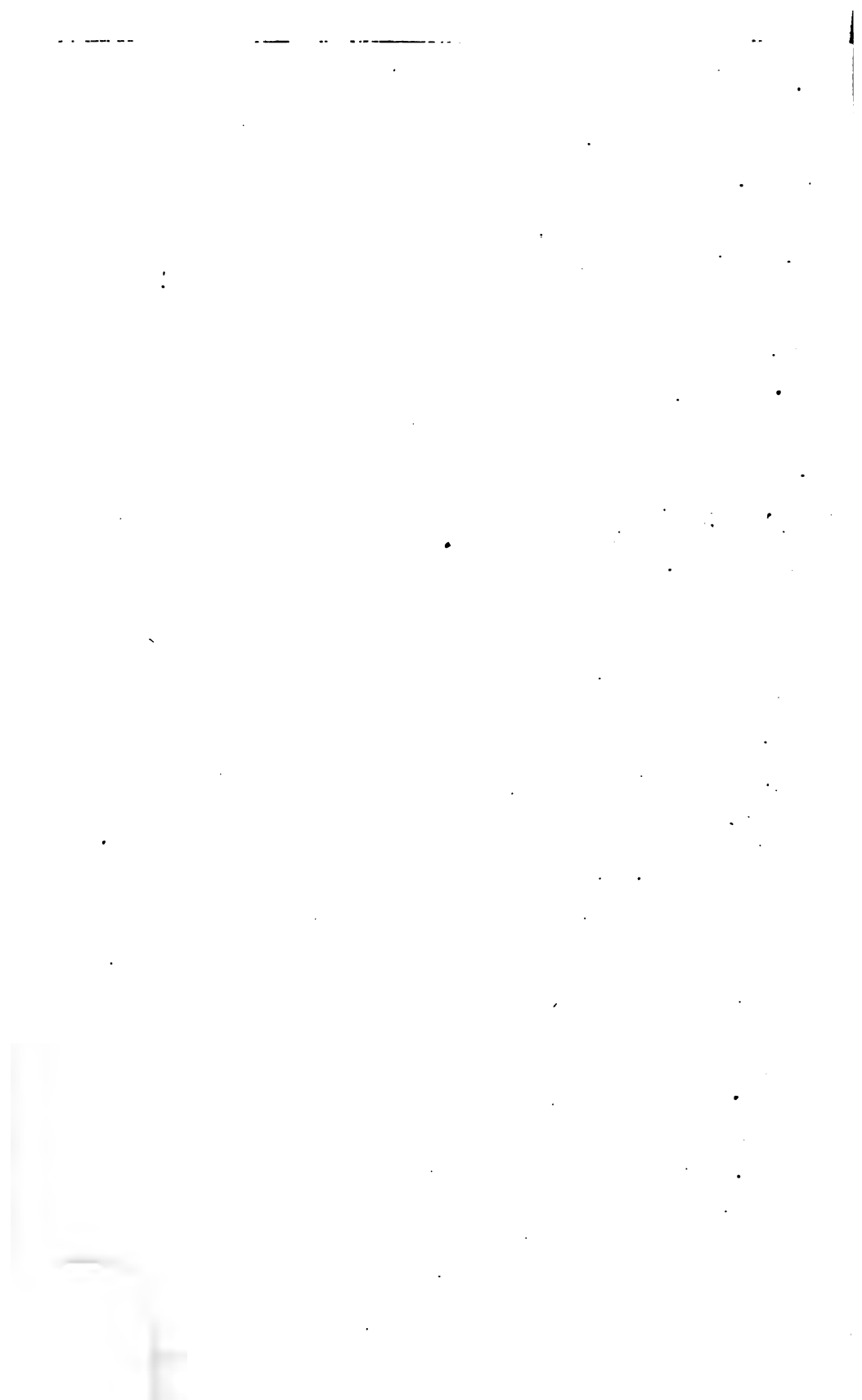


TABLE No. 8.
TOTAL DEATHS FROM ZYMOTIC DISEASES AND TOTAL DEATHS FROM ALL CAUSES
BY WARDS FOR THE YEAR ENDING DECEMBER 31, 1898.

WARDS.	Small Pox.	Measles.	Scarlet Fever.	Diphtheria.	Diphtherietic Group.	Mem. Group.	Croup.	Whooping Cough.	Cholera Infantum.	Enterocolitis.	Cholera Morbus.	Diarrhoea.	Dysentery.	Typhoid Fever.	Cerebro Spinal Fever.	Total Deaths from Zymotics.	Total Deaths from all causes.	Population by Wards.
First.....	8	.....	1	.....	1	17	1	.....	1	4	3	.....	31	165	7,378
Second	3	.....	.....	.....	1	.....	.....	5	43	3,650
Third	2	.....	.....	.....	.....	1	.....	.....	.....	.....	1	2	8	59	2,807
Fourth	2	.....	.....	.....	.....	3	.....	.....	.....	.....	2	.....	7	82	6,415
Fifth	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	.....	11	81	5,967
Sixth	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	.....	24	55	5,613
Seventh	2	.....	.....	.....	.....	9	.....	.....	.....	.....	3	.....	13	109	8,791
Eighth	2	.....	.....	.....	.....	4	.....	.....	.....	.....	2	.....	28	119	6,838
Ninth	7	.....	.....	.....	.....	7	.....	.....	.....	.....	6	.....	37	286	12,055
Tenth	1	.....	.....	.....	.....	3	.....	.....	.....	.....	2	.....	8	77	4,313
Eleventh	3	50	3,574
Twelfth	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	5	74	5,010

DEPARTMENT OF POLICE.

TABLE No. 8—Continued.

WARDS.	Small Pox.	Measles.	Scarlet Fever.	Diphtheria.	Diphtheritic Group.	Mem. Group.	Croup.	Whooping Cough.	Cholera Infantum.	Enterocolitis.	Cholera Morbus.	Diarrhoea.	Dysentery.	Typhoid Fever.	Cerebro Spinal Fever.	Total Deaths from Zymotica.	Total Deaths from all causes.	Population by Wards.
Thirteenth	2	.....	.....	8	.....	1	.....	1	.....	12	180	6,436
Fourteenth	1	.....	.....	.....	.....	.....	1	.....	.....	.....	1	.....	3	58	4,808
Fifteenth	1	.....	.....	.....	.....	.....	1	1	.....	.....	.....	1	.....	4	94	7,804
Sixteenth	2	.....	1	.....	.....	.....	1	9	3	1	1	.....	4	.....	22	119	10,365
Seventeenth	1	.....	1	1	1	1	4	.....	.....	.....	3	.....	10	109	6,868
Eighteenth	3	9	.....	2	.....	.....	3	2	.....	.....	.....	9	2	30	234	18,019
Nineteenth	1	2	6	.....	.....	.....	2	4	1	.....	1	1	6	.....	24	178	17,302
Twentieth	3	.....	.....	.....	.....	.....	1	.....	.....	.....	1	1	6	129	10,081
Twenty-first	1	.....	4	.....	1	1	2	6	6	.....	.....	1	3	1	26	183	14,061
Twenty-second	2	5	.....	1	.....	1	3	4	.....	.....	.....	2	1	19	124	12,298
Twenty-third	9	.....	2	2	2	10	10	.....	.....	.....	3	4	42	220	10,869
Twenty-fourth	1	4	.....	1	.....	.....	8	8	.....	.....	.....	4	.....	26	208	17,926
Twenty-fifth	1	5	.....	1	.....	.....	9	4	.....	.....	.....	3	.....	23	214	17,492
Twenty-sixth	3	.....	.....	.....	.....	9	.....	.....	.....	.....	5	2	20	129	8,647
Twenty-seventh	1	.....	.....	6	.....	1	.....	1	7	6	.....	1	2	4	1	29	198	14,872

TABLE No. 8—Concluded.

WARDS.	Small Pox.	Measles.	Scarlet Fever.	Diphtheria.	Diphtheritic Group	Mem. Group.	Croup.	Whooping Cough.	Cholera Infantum.	Enterocolitis.	Cholera Morbus.	Diarrhoea.	Dysentery.	Typhoid Fever.	Cerebro Spinal Fever.	Total Deaths from Zymotics.	Total Deaths from all causes.	Population by Wards.
Twenty-eighth.....	1	.....	.....	.....	.....	2	.....	.....	3	3	3	1	.....	3	1	17	94	4,408
Twenty-ninth.....	1	.....	.....	2	.....	1	.....	.....	.....	1	1	.....	6	68	5,021
Thirtieth.....	1	.....	1	.....	1	.....	2	.....	5	55	4,535
Thirty-first.....	1	1	.....	1	1	.....	1	2	1	1	.....	2	.....	11	57	4,419
Thirty-second.....	1	4	.....	1	.....	1	.....	.....	.....	.....	.....	1	.....	8	77	5,879
Thirty-third.....	2	.....	.....	1	.....	1	1	.....	.....	.....	6	.....	11	87	5,538
Thirty-fourth.....	3	3	.....	.....	1	3	2	12	86	7,013
Thirty-fifth.....	2	.....	.....	1	.....	3	1	.....	.....	.....	2	1	10	112	7,367
Thirty-sixth.....	1	2	.....	3	2	1	1	3	4	1	18	126	9,121
Thirty-seventh.....	1	4	.....	1	1	.....	14	1	1	1	.....	3	1	23	135	12,246
Thirty-eighth.....	1	.....	.....	2	3	.....	.....	1	5	1	13	132	11,208
Thirty-ninth.....	2	2	3	.....	3	.....	1	5	1	1	.....	.....	4	.....	22	166	14,121
Fortieth.....	1	2	7	.....	5	1	.....	4	1	.....	.....	.....	8	.....	2	187	12,373
Forty-first.....	3	.....	2	.....	.....	4	.....	1	.....	.....	2	1	13	116	8,978
Forty-second.....	1	.....	4	.....	3	.....	.....	1	.....	.....	.....	.....	2	.....	11	74	7,550
Total.....	12	29	110	.....	.....	36	18	16	162	87	11	15	16	121	29	682	5,040	370,000

DEPARTMENT OF POLICE.

TABLE No. 9.
TABLE SHOWING THE CLASSIFIED CAUSES OF DEATHS REPORTED EACH WEEK DURING
THE YEAR 1898.

Weeks Ending.	Deaths by Weeks in 1898.	Deaths by Weeks in 1897.	Deaths by Weeks in 1896.	Deaths by Weeks in 1895.	Deaths by Weeks in 1894.	Deaths by Weeks in 1893.	Deaths by Weeks in 1892.	Deaths from Nervous System.	Deaths from Respiratory System.	Deaths from Digestive System.	Deaths from Circulatory System.	Deaths from Urinary System.	Deaths from Generative System.	Deaths from Violent Causes.	Causes Unclassified.	Deaths by Bullets.
January 8	64	23	51	73	66	93	23	4	10	22	3	8	4	1	8	.....
" 15	78	73	72	101	63	80	95	10	17	25	7	4	4	1	10	.....
" 22	82	73	77	99	95	91	132	10	13	18	2	6	1	4	23	1
" 29	79	89	76	101	81	105	126	8	15	29	7	8	2	4	11	.....
February 5	100	93	90	86	86	91	105	11	16	39	8	9	3	2	11	1
" 12	97	102	82	85	94	99	113	6	15	41	14	4	1	2	14	.....
" 19	94	102	75	108	76	108	86	6	18	29	11	3	7	4	15	1
" 26	74	101	90	107	77	52	102	3	15	23	7	6	4	3	13	.....
March 5	108	105	79	124	98	59	81	4	21	30	5	17	8	2	19	.....
" 12	87	91	97	109	91	113	97	4	21	31	9	8	3	1	11	.....
" 19	107	75	109	114	96	109	108	7	20	36	14	7	7	2	14	.....
" 26	114	112	102	93	95	128	109	4	28	42	6	7	5	1	17	1
April 2	101	100	99	116	101	87	107	9	28	28	8	9	4	5	14	1

TABLE No. 9—Continued.

Weeks Ending.	Deaths by Weeks in 1896.	Deaths by Weeks in 1897.	Deaths by Weeks in 1896.	Deaths by Weeks in 1896.	Deaths by Weeks in 1894.	Deaths by Weeks in 1893.	Deaths by Weeks in 1892.	Deaths from Typhoid Fever.	Deaths from Nervous System.	Deaths from Respiratory System.	Deaths from Infective System.	Deaths from Circulatory System.	Deaths from Urinary System.	Deaths from Genital System.	Deaths from Violent Causes.	Causes Unclassified.	Deaths by Suicide.
April 9.....	92	77	134	103	106	81	95	4	28	31	7	11	2	.....	2	7	.....
" 16.....	108	87	99	94	97	108	95	4	23	37	10	7	2	3	3	19	1
" 23.....	115	106	91	113	77	113	100	3	25	51	12	8	2	1	2	11	.....
" 30.....	104	99	102	107	103	92	94	7	16	94	7	6	7	1	4	22	1
May 7.....	111	101	96	98	119	109	92	4	25	37	8	10	3	.....	3	21	1
" 14.....	128	76	64	105	101	76	90	8	29	35	9	13	5	.....	12	17	4
" 21.....	90	101	91	86	123	99	85	7	15	25	9	10	5	.....	2	17	.....
" 28.....	122	75	74	75	139	101	103	8	22	42	7	12	6	3	11	11	3
June 4.....	109	74	92	82	102	90	102	6	20	39	8	7	3	.....	7	19	2
" 11.....	73	96	70	80	110	94	83	6	16	17	8	9	2	1	4	10	2
" 18.....	103	68	82	85	125	86	87	6	26	32	11	2	.....	.....	7	19	1
" 25.....	84	75	91	74	119	95	104	.....	14	26	15	5	2	.....	6	16	.....
July 2.....	88	91	117	82	136	88	79	2	12	13	15	5	1	1	4	15	1
" 9.....	138	93	132	95	140	71	105	4	30	27	31	8	4	.....	14	20	1
" 16.....	115	160	143	104	163	99	102	5	23	17	21	10	6	2	14	14	3
" 23.....	122	134	153	157	204	133	122	3	16	15	35	9	1	1	20	22	3
" 30.....	117	133	126	110	189	174	202	4	15	14	43	8	8	2	10	13	5

DEPARTMENT OF POLICE.

TABLE No. 9—Continued.

Weeks Ending.	Deaths by Weeks in 1898.	Deaths by Weeks in 1897.	Deaths by Weeks in 1896.	Deaths by Weeks in 1895.	Deaths by Weeks in 1894.	Deaths by Weeks in 1893.	Deaths from Fevers.	Deaths from Nervous System.	Deaths from Respiratory System.	Deaths from Digestive System.	Deaths from Circulatory System.	Deaths from Urinary System.	Deaths from Generative System.	Deaths from Violent Causes.	Causes Unclassified.	Deaths by Suicide.
August 6.....	101	132	115	110	166	149	131	3	23	15	34	4	1	2	19	.....
" 13.....	84	139	89	120	159	142	136	2	17	12	25	7	3	3	15	1
" 20.....	91	99	115	89	131	125	127	4	21	21	20	5	2	3	15	.....
" 27.....	118	77	97	95	116	107	125	4	20	22	29	5	3	9	26	.....
September 3.....	104	115	105	128	117	108	87	5	19	22	28	6	2	6	16	.....
" 10.....	98	111	81	109	97	99	105	6	20	15	27	8	3	5	14	.....
" 17.....	75	91	90	97	117	88	90	7	18	9	15	3	4	12	6	1
" 24.....	90	104	82	122	90	89	92	5	20	13	20	8	2	3	18	1
October 1.....	98	84	97	104	96	77	95	11	17	24	13	7	5	3	18	1
" 8.....	104	78	65	101	84	96	98	16	20	22	18	5	3	6	13	1
" 15.....	72	102	82	105	94	64	87	3	22	15	5	8	3	4	12	.....
" 22.....	73	101	81	97	104	85	101	19	8	11	8	6	2	5	13	1
" 29.....	74	103	93	103	97	91	89	14	11	12	11	4	3	4	14	1
November 5.....	93	90	91	93	117	67	62	13	18	20	12	9	3	5	13	.....
" 12.....	95	89	84	95	109	104	104	14	12	34	9	10	3	2	10	.....
" 19.....	86	78	90	90	95	77	70	9	21	18	2	6	3	7	20	1
" 26.....	72	92	79	104	94	91	79	9	11	24	2	6	1	6	12	1

TABLE No. 9—Concluded.

Weeks Ending.	Deaths by Weeks in 1888.	Deaths by Weeks in 1897.	Deaths by Weeks in 1896.	Deaths by Weeks in 1895.	Deaths by Weeks in 1894.	Deaths by Weeks in 1893.	Deaths by Weeks in 1892.	Deaths from Typhoid.	Deaths from Nervous System.	Deaths from Respiratory System.	Deaths from Digestive System.	Deaths from Circulatory System.	Deaths from Urinary System.	Deaths from Genital System.	Deaths from Violent Causes.	Un- classified.	Deaths by Suicide.
December 3.....	80	70	73	102	93	111	102	13	9	25	6	7	4	.....	2	14	.....
" 10.....	97	100	84	95	100	130	68	13	23	26	5	9	3	.....	6	13	1
" 17.....	92	98	83	88	100	113	91	13	18	30	5	4	2	1	7	12	1
" 24.....	102	88	80	87	100	140	88	12	17	23	16	10	8	.....	2	14	1
" 31.....	116	91	68	63	93	93	76	11	17	37	6	8	6	2	4	26	1
" 31.....	43	91	76	36	30	.....	.....	8	4	16	2	4	2	.....	2	5	.....
Total	5,040	5,007	4,959	5,167	5,663	5,261	5,227	376	976	1,350	675	385	187	32	270	789	82

TABLE No. 10.
ANNUAL DEATH RATE.

1896.....	13.62
1897.....	14.30
1896.....	14.71
1895.....	15.89
1894.....	17.43
1893.....	18.15
1892.....	18.02
1891.....	19.17
1890.....	19.08
1889.....	18.36
1888.....	18.78
1887.....	19.02
1886.....	17.40
1885.....	17.43
1884.....	18.00
1883.....	17.41
1882.....	18.85
1881.....	20.02
1880.....	19.60
1879.....	17.36
1878.....	16.72
1877.....	17.91
1876.....	19.81
1875.....	18.28

TABLE No. 11.
TABLE SHOWING THE NUMBER OF BIRTHS EACH MONTH FOR THE YEAR ENDING
DECEMBER 31, 1898.

MONTHS.	Births, exclusive of Stillbirths.		Color.		Sex.		Nativity.										Age of Mothers.					Not stated.	
	White.	Colored.	Male.	Female.	Native.	Foreign.	Native Mother.	Foreign Mother.	Twins and Triplets.					Illegitimate.			Under 20 years.	20 to 25 years.	25 to 30 years.	30 to 40 years.	40 to 50 years.		
									Native.	Foreign.	Nat'v Mother.	For'n Mother.	Total Child'n.	Triplets.	Nat'v Mother.	For'n Mother.							Total Child'n.
January	871	867	477	394	273	461	58	37	4	6	1	1	24	.....	11	7	18	51	221	254	288	45	.....
February	735	733	355	370	196	433	41	34	4	4	.....	.....	16	.....	10	5	15	42	177	202	268	38	.....
March	775	771	415	360	200	470	56	26	1	4	.....	.....	10	.....	6	7	13	34	236	215	243	42	.....
April	655	654	324	331	186	372	47	20	.....	6	.....	.....	12	.....	11	7	18	25	163	195	226	40	.....
May	732	728	359	373	182	436	42	32	3	8	.....	.....	22	.....	11	7	18	29	201	228	215	48	.....
June	712	703	383	329	221	395	37	31	1	4	.....	.....	10	.....	13	5	18	32	181	204	247	43	.....
July	698	692	349	349	200	404	40	25	3	3	.....	.....	12	.....	14	3	17	37	189	206	214	46	.....
August	734	731	368	366	217	430	28	29	2	3	.....	.....	10	.....	11	9	20	29	190	237	242	31	.....
September	677	672	340	337	184	407	41	26	2	4	1	.....	14	.....	5	.....	5	28	185	208	217	32	.....
October	773	773	405	368	194	473	53	37	.....	.....	1	1	4	.....	9	3	12	50	204	203	273	41	.....
November	855	850	427	428	220	535	48	32	1	2	1	.....	8	.....	8	4	12	43	223	239	308	33	.....
December	929	927	484	445	232	612	36	28	3	.....	.....	.....	6	.....	10	5	15	39	185	262	402	38	.....
Total	9146	9101	4686	4460	2505	5128	527	357	24	44	4	2	148	.....	119	62	181	444	2355	2653	3143	477	.....

TABLE NO. 12.

NUISANCES ABATED IN 1898 BY SANITARY POLICEMEN.

Sanitary Policemen.	Alleys Filthy.	Gutters Filthy.	Catch Basins.	Houses Filthy.	Yards and Lots Filthy.	Cisterns Filthy.	Wells Examined.	Wells Condemned.	Wells Filled Up.	Notices to Remove Ashes and Rubbish.	Notices to Remove Manure.	Stables Filthy.	Chicken Coops Filthy.	Privies Filthy.	Old Privies Closed.	New Privies.	Privies Cleaned.	Privies Repaired.	Sewer Vaults.	Cess-pools Cleaned.
Armstrong.	18	17	48	20	158	.....	.....	.....	.....	176	21	3	.....	156	10	1	73	1	.....	4
Beakel.	45	110	20	2	209	8	6	.....	1	269	52	.....	18	44	31	33	315	59	33	.....
Bartel.	20	20	2	18	26	6	.....	.....	.....	94	55	11	10	328	23	21	265	13	14	12
Bubb.	8	2	5	15	44	5	.....	1	1	488	91	8	4	442	21	10	257	23	.....	5
Cole.	7	6	10	6	14	.....	.....	.....	1	74	39	5	9	467	5	7	193	4	.....	.....
Dwyer.	76	35	35	77	112	1	1	1	1	121	66	27	21	234	24	18	196	21	9	4
Krass.	16	22	38	48	41	.....	.....	.....	.....	267	40	7	10	20	5	1	221	1	4	6
Newcomb.	9	34	46	21	80	1	.....	.....	1	337	212	33	54	75	129	7	539	19	109	4
Nevins.	237	84	31	94	537	5	.....	.....	.....	509	71	15	15	448	13	1	206	3	13	7
Port.	51	25	9	33	118	.....	1	1	1	839	135	38	22	61	94	3	144	8	51	.....
Redinger.	29	29	35	120	385	11	.....	.....	1	368	61	42	139	509	8	16	413	6	98	11
Schnauffer.	38	36	15	17	21	3	3	3	3	192	273	109	130	492	87	68	372	.....	98	.....
Stearns.	11	19	1	4	99	8	.....	.....	3	99	68	4	36	887	49	30	314	4	47	2
Shannon.	17	2	30	6	84	1	.....	1	3	415	89	4	29	371	68	6	295	.....	65	.....
Vogt. ....	.....	.....	.....	2	20	.....	.....	.....	.....	57	39	.....	4	645	46	14	608	4	.....	1
Whitman. ....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total.	577	441	384	483	1943	49	11	7	16	4306	1307	306	501	4479	618	236	4406	166	581	56

TABLE No. 12—Concluded.

NUISANCES ABATED IN 1898 BY SANITARY POLICEMEN.

Sanitary Policemen.	New Cess-pools.	Notices for Swill and Garbage.	Pig Pens.	Dead Animals.	Slaughter Houses.	Soap Factories.	Slaughter Licenses.	Milk Licenses.	Cattle Yards.	Notice to Drain Pond.	Sewers.	Sewers Stopped.	School Buildings Ex- amined.	Contagious Diseases.	Birth Reports Gathered.	Miscellaneous.	Arrests.	Death Reports Gathered.	Total Number of Days on Annual Duty.
Armstrong	196			5							2	73		73	189	919			7
Beakel	1	132	1	39	8		4	61		37	48	22	20	224	465	2,725			5
Bartel	1	116	4	24				59		3	12	13	13	287	319	1,015			4
Bubb		519	1	2			4	49			16	69	6	160	124	1,690			7
Cole		62		9	5		4	4		4	162	32	3	179	395	2,873			2
Dwyer	2	417		23	30	17	9	19		5	35	115	46	417	489	2,821	3		3
Kraus	6	329		16	6		2	51			20	41	11	390	430	1,595			6
Newcomb	2	380		41			12	80	5	15	130	83		454	712	2,172	1		6
Nevins	1	332					2	49			38	90	42	230	359	5,764			2
Port		525	2	16	4	1	6	101	1		43	73	42	189	446	2,110	1		13
Redinger	3	92	12	27	111	11	18	24		2	116	66	77	260	368	1,715			3
Schnauffer		168	2	25	328	804	9	116	156	17	97	41	56	262	451	862			9
Stearns		2		19	973		9	29		3	47	23	2	156	940	1,256	1		5
Shannon		505	2	27	2		4	37		3	66	126	7	418	601	2,872	1		3
Vogt		7					4	64		8	36	21	4	234	1310	729	1		2
Whitman																			1
Total	16	3781	24	273	4407	833	87	643	162	97	868	888	329	3923	7596	31,118	8	159	63

TABLE No. 13.
UNITED STATES WEATHER BUREAU.
Annual Meteorological Summary of Cleveland, Ohio, for the Year Ending December 31, 1898.

Latitude, N. 41° 30'. Longitude, W. 81° 42'. 1898. MONTH.	Monthly Mean Barometer.	Mean Temperature.			Mean Humidity Percentage.	Total Inches Rainfall.	Prevailing Di- rection of Wind.	Wind, Total Movement in Miles.	Number of Days.					Thunder Storms.	Auroras.
		Mean Therm° F.	Maximum Therm° F.	Minimum Therm° F.					Clear.	Partly Cloudy.	Cloudy.	Rainy.	Snow.		
January.....	28.16	31.6	37.5	25.6	77	3.51	W.	13,336	4	70	2	16	8	2	0
February.....	29.24	28.3	34.2	22.4	77	2.63	S. E.	10,942	5	5	18	19	14	0	0
March.....	29.31	43.0	51.1	34.8	73	4.06	S. E.	10,457	10	10	11	13	2	1	1
April.....	29.20	44.1	56.5	37.7	68	1.63	N.	10,273	9	10	11	8	1	1	0
May.....	29.13	57.8	64.7	51.0	71	2.07	N.	8,625	7	12	12	15	0	9	1
June.....	29.20	63.8	76.5	61.1	68	2.74	N.	8,543	21	9	0	11	0	15	0
July.....	29.24	73.4	80.5	66.4	67	2.19	N.	8,394	19	12	0	10	0	8	0
August.....	29.18	71.7	78.6	64.8	72	1.79	S. E.	7,982	7	21	3	7	0	10	0
September.....	29.24	67.0	75.3	58.8	69	2.53	S. E.	9,649	9	18	3	11	0	9	0
October.....	29.24	53.6	61.1	46.2	74	4.61	S. E.	11,788	4	11	16	13	0	0	0
November.....	29.24	39.2	46.3	32.1	70	2.67	S. E.	12,404	2	11	17	13	4	0	0
December.....	29.19	28.9	34.8	23.0	69	2.13	S. W.	13,950	2	12	17	13	9	0	0
Sum.....	350.57	607.4	691.1	523.9	849	32.54	.....	126,342	99	138	128	149	38	55	2
Mean averages for the year.....	29.21	59.6	67.6	48.7	71	.....	S. E.	.....	.....	.....	.....	.....	.....	.....	.....

JAS. KENEALY,
Local Forecast Official.

Report of Smoke Inspector.

Dr. J. L. Hess, Health Officer:

SIR:—I herewith submit report of smoke abatement for the past seven months, or since the City Council passed Ordinance No. 20,550. When I submitted my last report I had three cases pending in police court, having arrested by your order for violating the smoke ordinance L. L. Malm, W. J. Hard, and Mr. Warner. Judge Fiedler tried the L. L. Malm case and decided that the smoke ordinance was unconstitutional, declaring that it was a prohibitory ordinance and that the State conferred no such powers on the City Council, but gave them power to regulate and not to prohibit. By your order I reported to the Inspector of Plumbing and Sewers, and was inspecting plumbing until Ordinance 20,550 was passed by the Council, when according to instructions from you I commenced to enforce it. At the present time several large firms are putting in devices, such as the Cleveland Rolling Mill Co., the Cleveland Electric Street R. R. Co., the HP Nail Co., the Cleveland Electric Illuminating Co. and several others. By your order I arrested W. H. Foster, manager of the Standard Oil Co. works, No. 2, Tod street and Erie R. R. This case is pending in police court at this time. Several new devices have been introduced within the past year and several are as near perfect as can be conceived. The best smoke preventer under all conditions and for economy is the automatic feed.

The following report, I hope, will meet your approval:

Number of notices served, 192; visits, 86; complaints, 23; special duty, 53 days; Hawley down-draft furnace, 24; American under-feed, 4; Brightman stoker, 9; Murphy stoker, 8; steam jets of different kinds, 45; Ramsey setting, 10; hard coal, 1; Pocahontas coal, 16; arrest, 1.

Respectfully submitted,

JAMES McLAREN,
Smoke Inspector.

January 21st, 1899.

Report of Plumbing and Sewer Inspector.

Dr. J. L. Hess, Health Officer:

DEAR SIR:—As Inspector of Plumbing and Sewers, I have the honor to submit to you my annual report for the year ending December 31, 1898.

In the past year we have issued five thousand six hundred and eleven (5,611) permits for plumbing and sewerage. Of that number three thousand one hundred and thirty-two (3,132) permits were for plumbing, two thousand one hundred and twenty-six (2,126) were for sewerage, and three hundred and fifty-three (353) were for extensions and repairs of sewers.

Final inspections have been made upon one thousand two hundred and nine (1,209) plumbing jobs for new houses and upon two thousand six hundred and ninety-nine (2,699) jobs in old houses, making a total inspection of three thousand nine hundred and eight (3,908) plumbing jobs; also final inspection of four thousand and ninety-two (4,092) water closets which have been placed upon premises.

Final inspections have been made upon two thousand two hundred and six (2,206) sewer jobs, eight hundred and twenty-seven (827) being in new houses and one thousand three hundred and seventy-nine (1,379) in old houses.

During the past year we have made seven thousand two hundred and thirty-six (7,236) inspection visits of plumbing and two thousand five hundred and twenty-two (2,522) inspection visits on sewers, making a total of nine thousand seven hundred and fifty-eight (9,758) inspection visits.

We have found four hundred and six (406) defective plumbing jobs and ninety-nine (99) defective sewer jobs, making a total of five hundred and five (505) defective jobs found by our inspectors.

I have found it necessary to have delivered to the plumbers and sewer builders of the city seventy-seven (77) notices advising them of defective work and other matters in regard to the trade.

Two hundred and sixty-three (263) special examinations of plumbing and house drainage were made by the request of yourself and interested persons. In many cases alterations and repairs have been made as a result of these inspections.

Thanking you for the interest you have taken in this department, I remain,

Yours respectfully,

B. ROBINSON,
Inspector of Plumbing and Sewers.

Report of Food Inspector.

Dr. J. L. Hess, Health Officer:

DEAR SIR:—It is my honor to hand you herewith the annual report of this office for the fiscal year ending December 31, 1898.

The chief aim of this department has been to do the chemical work in the most accurate manner possible and in the shortest time consistent with good results, in order that there could be no question raised as to the findings and that these might be ready for use at the earliest possible moment.

At the time of the writing of our last report we were in great need of chemicals and apparatus which would put our laboratory in better condition to meet the demands made upon it. The beginning of the new year finds us fairly well equipped, but we are still very much in need of many things which would greatly aid us in our investigations which if granted would better enable us to protect the public from adulterated food.

The same rigid rules have been followed this year in regard to the inspection of places where food stuffs are prepared, stored and sold as those adopted last year, and having the work in better order we have been able to accomplish much more in this way, and there is scarcely a manufactory, storehouse or store that has not been inspected at some time or times during the past year. As shown by the following table, the work of inspection has been extended. In this will be given places visited, number of each, number of calls made, and the totals for the year.

Place.	Number.	Visits.	Total.
Ice cream factories.....	9	3	27
Milk depots.....	12	20	240
Dairies.....	105	2	210
Bakeries.....	21	3	63
Stores.....	76	2	152
Restaurants.....	18	3	54
Groceries.....	61	2	122
Fish markets.....	6	4	24
Meat markets.....	47	2	94
Market houses.....	3	5	15
Candy factories.....	8	3	24
Drug stores.....	41	2	82
Ice ponds.....	9	2	18
Total.....	416	55	1,125

MILK.

Nearly six thousand samples of milk have been collected during the last year from milk trains upon their arrival in the city, from milk dealers, wagons and milk depots, an average of twenty samples for each working day in the year. To be enabled to secure samples of milk as it is dealt out to patrons, there should be a horse and light wagon provided for the use of the collector. We hope that something may be done in this matter, as the results would be far-reaching and of great value to all. Very few samples of milk taken were found to be adulterated or skimmed, and the following table will show the number of the samples taken each month, the number and per cent. low, the adulterated, the average specific gravity, fat and total solids for each month, and also the total and percentages for the entire year.

Very few samples were taken during the month of July and none in September, owing to the sickness of the collector.

Month.	No. Samples.	Low.	% Low.	Adult-erated.	% Adult-erated.	Average Sp. Gr.	Average Fat.	Average Total Solids.
January	744	53	7.12	3	.40	1.029	4.1	12.48
February	623	57	9.14	2	.32	1.029	4.1	12.55
March	850	128	15.08	4	.47	1.029	3.9	12.24
April	720	104	14.44	6	.83	1.029	3.8	12.17
May	540	55	10.18	10	1.85	1.030	3.7	12.19
June	468	26	5.55	8	1.71	1.030	3.8	12.35
July	90	5	5.55	2	2.22	1.029	3.7	11.95
August	360	9	2.50	7	1.94	1.029	3.9	12.29
September								
October	612	50	8.17	15	2.45	1.030	4.0	12.51
November	504	43	8.53	6	1.19	1.030	4.0	12.51
December	413	29	7.00	8	1.93	1.030	4.0	12.46
Totals	5,924	559	9.43	71	1.19	1.0295	3.91	12.33

No coloring matter was used in any of the samples of milk taken. The skimming of milk either at the dairies or the taking of cream from the top of can by the dealer was an evil with which we had a great amount of trouble two years ago, but during the last year this practice has greatly diminished. Notices are sent to dealers whose samples have been found below the standard required by law that they would be prosecuted if their milk was found below standard a second time. There are one thousand six hundred and seventy-four (1,674) licensed milk dealers in the city of Cleveland; of this number six hundred and one (601) are for wagons and one thousand and seventy-three (1,073) for stores. When samples are taken the wagons, stores and depots are given a thorough inspection, and if not found in good sanitary condition the owners are required to clean and improve their property at once. A second visit is made to see that our orders have been obeyed. We have given much attention to the manner in which milk cans are cleaned. We have kept the inspection of cans well in hand, resulting in a decided improvement in their sanitary condition. The sanitary patrolmen are instructed to report to us any case of contagious disease that may be on the premises

of any dealer in milk, in order that the sale of the same may be stopped until the patient has recovered and the house or store disinfected to prevent the spreading of disease.

DAIRIES.

Last year the condition of dairies which supply the milk for the city was set forth at some length and the necessity of their inspection was shown to be of great importance. Many dairies were found to be in a filthy condition. It is sufficient to say that it does not seem possible that such disregard for all rules of cleanliness could exist without most serious results following. We have no jurisdiction outside of the city limits, but we can prohibit unclean milk from being brought into the city, or stop its sale. Notice was given to owners of dairies and notices sent to dealers who get their supply from these places that they must discontinue the sale of milk until the dairy was put in good order. Upon returning to these places the changes that had taken place were surprising and the good done by this method of procedure very gratifying indeed.

MILK DEPOTS.

Most careful attention has been given to the handling and keeping of milk after its arrival in the city. Clean cooling vats, pure ice, good ventilation and drainage are necessary to its proper keeping.

BUTTER AND CHEESE.

The sale of oleomargarine, or mixtures of butter and oleomargarine, for pure butter has given us very little trouble during the last year. Very few complaints have been received in this regard and very few adulterations have been found among many samples from stores, wagons and markets. A number of cases of cheese and ice-cream poisoning have been brought to our notice, this being due in each case to the existence of tyrotoxicon, or "cheese poison."

ICE-CREAM MANUFACTORIES.

A most noticeable improvement has been made in the condition of the places where ice-cream is made, due to the constant attention that has been given them by this office.

GROCERIES, FISH AND MEAT MARKETS.

To these we have given our constant attention, taking note of their cleanliness, the manner in which the articles for sale were kept, the position of sewers and drains. At this time most of the places will be found in prime condition, being clean, well lighted and ventilated and the sewers and drains in working order and well located.

CHEMICAL WORK.

The work done in the laboratory has been of the most varied nature and of greater extent than ever before. There are many things which should be subjected to a chemical analysis before being accepted by the city, and the specifications for certain articles should give the chemical composition desired. I therefore recommend that an appropriation be made that would provide for such work.

The following table will give some idea of the amount of chemical work done and of the varied kinds we are called upon to do. Therein will be found the different articles, the number of each, the number of determinations made for each, and the totals for the entire year.

	Number of Samples.	Number of Determinations.	Total Num- ber of Determinations.
Milks collected	5,924	5	29,620
Milks brought in.....	146	5	730
Milks for poisons.....	3	8	24
Cream.....	19	5	95
Butter.....	22	7	154
Buttermilk.....	2	5	10
Oleomargarine.....	8	7	56
Cheese.....	6	7	43
Condensed cream.....	2	6	12
Ice cream	3	6	18
Well water.....	16	13	208
Spring water.....	10	13	130
Lake water	48	13	624

	Number of Samples.	Number of Determin- ations.	Total Num- ber of Determin- ations.
Water from creeks.....	8	13	104
Cider.....	8	10	80
Vinegar.....	5	10	50
Grape wine.....	2	10	20
Sherry wine.....	2	14	28
Wild cherry phosphate	2	6	12
Malto.....	4	10	40
Beer	7	10	70
Whiskey.....	3	10	30
Hop tonic	2	10	20
Malt mead.....	3	10	30
Coffee	12	6	72
Tea.....	8	6	48
Beans.....	6	3	18
Peas.....	6	5	30
Corn meal.....	7	5	35
Rice.....	8	7	56
Rollod oats	6	5	30
Flour.....	10	9	90
Barley.....	7	5	35
Peas for poisons.....	3	7	21
Granulated sugar.....	16	8	128
Brown sugar.....	10	10	100
Horseradish.....	5	5	25
Baking powder.....	11	10	110
Beans, canned	8	9	72
Asparagus, canned.....	3	11	33
Plums, canned.....	2	5	10
Tomatoes, canned.....	5	5	25
Cherries, canned.....	2	5	10
Apricots, canned.....	3	5	15
Peaches.....	2	5	10
Molasses candy.....	3	8	24
Colored candy.....	2	8	16
Jellyoon.....	4	8	32

DEPARTMENT OF POLICE.

	Number of Samples.	Number of Determin- ations.	Total Num- ber of Determin- ations.
Grape jelly.	2	6	12
Cement.....	20	8	160
Corned beef.....	1	7	7
Chicken	2	7	14
Cast iron.....	44	6	264
Marble polish.....	1	10	10
Brass polish.....	2	6	12
Furniture polish.....	1	14	14
Opium.....	1	15	15
Explosive compound	2	6	12
Fruit preservative	1	6	6
Patent medicine	1	10	10
Disinfectant.....	1	24	24
Soap.....	2	5	10
Urine.....	19	12	228
Tin sheeting	2	6	12
Totals.....	6,506		34,062

Respectfully submitted,

FRANCIS J. PECK,
Food Inspector.

Report of Sanitary Patrolman.

Dr. J. L. Hess, Health Officer:

DEAR SIR:—I have the honor to submit to you the following report of the work done by me as Sanitary Patrolman in the office of the City Food Inspector for the year ending December 31, 1898:

Samples Collected:

Milk.....	5,924
Lake water.....	1
Well water.....	20
Jellyoon	4
Butter.....	11
Canned fruit.....	8
Baking powder.....	4
Cider	7
Sugar.....	6
Vinegar	12
Ice.....	1
Ice cream.....	1
Water from creek.....	7

Inspected:

Milk depots.....	179
Ice cream factories.....	35
Meat markets.....	17
Fish markets.....	9
Restaurants.....	16
Ice ponds.....	7

Notices Served:

License for milk.....	7
To clean out milk vat.....	15
To put name and number on wagon.....	41
To clean out milk wagon.....	16

Licenses Collected:

Milk.....	152
Slaughter houses.....	20

Miscellaneous visits.....	575
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Total	7,095
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Respectfully submitted,

S. C. WHITMAN.

REPORT

OF THE

POLICE COURT.

1898.

POLICE COURT OFFICIALS.

WILLIAM F. FIEDLER..	Judge.
THOS. M. KENNEDY ..	Prosecutor.
GEORGE SCHINDLER.....	Assistant Prosecutor.
THOS. C. BRINSMADE.....	Assistant Prosecutor.
A. B. HONECKER	Clerk.
TONY S. DEISNER.....	Deputy Clerk.
JOHN DOUGLASS.....	Deputy Clerk.
PAUL SCHREINER.....	Deputy Clerk.
CHARLES T. PRESTIEN..	Deputy Clerk.
ART A. KUNTZ	Deputy Clerk.
LOUIS RUBENSTEIN.....	Interpreter.
LOUIS BEZENA.....	Messenger.

Report of the Clerk of Police Court.

CLEVELAND, OHIO, February 8, 1899.

To the Honorable City Council.

GENTLEMEN:—I herewith submit my annual report for the year ending December 31, 1898.

Respectfully submitted,

A. B. HONECKER,
Clerk of Police Court.

REPORT OF PROCEEDINGS OF THE POLICE COURT FOR THE YEAR ENDING
DECEMBER 31, 1898.

REPORT OF THE POLICE COURT.

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	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
City Cases—No. of persons arraigned.....	734	607	760	848	1,042	883	877	991	972	985	843	738	10,280
State Cases—No. of persons arraigned.....	197	177	186	280	310	359	384	311	318	281	255	197	3,185
No. of state examinations.....	22	25	14	32	25	39	12	36	37	37	39	27	346
No. of cases from Justice courts.....	12	11	8	7	.....	.....	.....	.....	4	8	.....	7	51
Total.....	965	821	962	1,117	1,377	1,281	1,273	1,338	1,331	1,291	1,137	939	13,802
City Cases—No. of persons committed to Workhouse.....	33	21	26	23	20	19	27	36	10	15	18	18	268
State Cases—No. of persons committed to Workhouse.....	17	10	21	9	15	18	23	28	10	8	10	25	188
No. of Boys committed to Boys' Industrial School.....	5	3	5	11	7	4	1	2	4	4	7	3	56
Total.....	55	34	52	43	42	41	51	63	24	27	35	46	512

REPORT OF PROCEEDINGS OF THE POLICE COURT FOR THE YEAR ENDING
DECEMBER 31, 1898.—Concluded.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
City Cases—No. of days on commitments to Workhouse.....	920	750	780	650	380	722	810	1,040	280	430	430	530	7,792
State Cases—No. of days on commitments to Workhouse.....	760	430	1,101	401	420	490	1,675	1,283	551	320	290	1,227	8,928
Total.....	1,680	1,180	1,881	1,051	780	1,212	2,485	2,323	831	750	770	1,747	16,720

REPORT OF THE POLICE COURT.

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REPORT OF PROCEEDINGS OF THE POLICE COURT FOR THE YEAR ENDING DECEMBER 31, 1898.

CITY CASES.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Amount of Fines Assessed.....	1,783 00	1,110 00	1,539 00	1,509 00	1,534 00	1,268 00	1,941 00	2,397 00	1,297 00	1,700 00	1,484 00	1,341 00	\$18,867 00
Amount of Costs Assessed.....	1,990 35	1,469 15	2,076 45	2,006 45	2,557 50	1,370 45	1,941 50	2,453 85	2,156 35	2,273 10	1,756 00	1,503 05	24,053 20
Amount Collected from Previous Month....	125 80	43 95	95 35	43 15	53 10	91 00	58 05	38 90	74 40	70 15	32 60	56 90	783 35
Total.....	3,899 15	2,623 10	3,709 80	3,558 60	4,144 60	3,229 45	3,840 55	4,889 75	3,527 75	4,107 25	3,272 60	2,900 95	43,708 55
Amount Collected in City Cases.....	1,484 20	1,115 95	1,447 15	1,535 65	2,059 90	1,627 45	1,839 70	2,159 55	2,012 85	2,181 65	1,523 65	1,609 35	20,496 05
Amount of Fines on Commitment to Workhouse.....	1,169 00	692 00	1,080 00	853 00	629 00	651 00	1,042 00	1,356 00	494 00	828 00	751 00	516 00	10,066 00
Amount of Costs on Commitment to Workhouse.....	942 85	646 40	953 35	898 45	1,050 80	759 05	802 25	1,013 70	717 15	897 35	756 85	554 50	8,990 70
Amount of Costs in Cases Nolledd.....	41 60	9 50	28 10	18 60	12 90	8 00	3 50	14 00	5 50	7 50	14 00	2 50	165 70
Amount of Costs in Cases Uncollected.....	191 50	136 65	128 80	195 40	301 15	109 25	101 40	247 50	156 15	99 75	128 30	128 60	2,025 45
Amount of Costs in Cases Dismissed.....	70 00	22 60	72 40	54 50	69 45	74 70	51 70	99 00	142 10	98 00	87 50	90 00	926 95
Amount of Costs in Cases on Error.....	.....	.....	.....	.....	21 40	.....	.....	.....	.....	.....	11 30	.....	32 70
Total.....	3 999 15	2,623 10	3,709 80	3,558 60	4,144 60	3,229 45	3,840 55	4,889 75	3,527 75	4,107 25	3,272 60	2,900 95	\$43,708 55
Amount of Jurors and Witness Fees Certified to City Auditor.....	101 50	42 00	102 00	97 00	79 00	67 00	83 00	166 50	166 00	117 00	114 50	84 50	1,220 00

REPORT OF THE POLICE COURT.

REPORT OF PROCEEDINGS OF THE POLICE COURT.—Continued.

CASES FROM JUSTICE COURTS.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Amount of Costs in Cases Sentenced.....			45 40	23 50					34 00	16 40			\$ 119 30
Amount of Costs in Cases Discharged.....	382 12	245 90	29 40	248 50			150 05		37 85	56 70		219 10	1,378 62
Amount of Costs in Cases Nolle.....													
Total.....	382 12	245 90	74 80	272 00			150 05		71 85	73 10		219 10	1,497 92
Amount of Witness and Jurors' Fees in State Cases.....	647 00	1,631 00	1,422 05	1,464 00	963 00	1,563 80	1,238 00	1,906 66	1,688 00	753 80	972 00	2,892 00	17,231 30
DISTRIBUTION OF FINES AND COSTS.													
City Cases—Due Police Court Fund.....	1,043 60	752 70	975 45	1,076 55	1,421 60	1,126 80	1,309 65	1,508 75	1,427 05	1,594 85	1,117 90	1,207 20	\$ 14,561 20
City Cases—Director of Police (Service of Writ).....	262 10	240 75	300 70	231 60	429 80	318 65	637 55	403 30	381 80	370 20	280 25	241 15	3,527 85
City Cases—Police Pension Fund (Officers' Fees).....	178 50	122 50	171 00	177 50	208 50	183 00	192 50	247 50	204 00	216 50	145 50	161 00	2,208 00
Total.....	1,484 20	1,115 95	1,447 15	1,535 65	2,059 90	1,627 45	1,339 70	2,159 55	2,012 85	2,181 65	1,523 65	1,609 35	\$ 20,567 05
State Cases—Due Cuyahoga County.....	415 10	248 10	322 30	615 00	365 75	486 50	235 64	527 10	354 00	313 80	159 60	187 10	\$ 4,229 99
State Cases—Director of Police (Service of Writ).....	118 15	62 05	70 85	85 85	78 50	111 05	68 55	101 95	89 00	57 80	47 90	85 70	925 35
State Cases—Police Pension Fund (Officers' Fees).....	37 00	42 00	17 00	41 00	45 00	48 00	17 00	24 00	17 00	21 00	10 00	20 00	339 00
Total.....	569 25	352 15	410 15	741 85	489 25	645 55	321 19	653 05	460 00	392 80	217 50	242 80	\$ 5,494 34
Grand Total in City and State Cases.....	2,052 45	1,468 10	1,857 30	2,277 50	2,549 15	2,273 00	2,160 89	2,812 60	2,472 85	2,574 25	1,741 15	1,852 15	\$ 26,091 39

REPORT OF PROCEEDINGS OF THE POLICE COURT.—Concluded.

REPORT OF THE POLICE COURT.

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STATE CASES.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Amount of Fines Assessed.....	1,267 00	849 00	1,304 00	1,184 00	615 00	915 00	1,372 00	2,110 00	763 00	788 00	1,282 00	1,810 00	\$ 14,869 00
Amount of Costs Assessed.....	1,151 25	1,949 20	1,756 20	1,701 75	1,362 40	1,891 20	1,687 70	2,330 15	1,812 65	1,019 15	2,108 30	3,148 85	21 918 80
Amount of Costs from Previous Months.....	127 80	115 05	110 40	75 65	2 50	39 00	31 19	15 45	73 00	26 40	8 90	88 30	713 64
Total.....	2,546 05	2,913 25	3,170 60	2,961 40	1,979 90	2,845 20	3,690 89	4,455 60	2,648 65	1,843 55	3,399 20	5,047 15	\$ 37,501 44
Jury Fees.....	.....	656 00	708 00	702 00	414 00	820 00	680 00	966 00	788 00	.....	972 00	2,118 00	8,884 00
Amount Collected in State Cases.....	568 25	352 15	410 15	741 85	489 25	645 55	321 19	653 05	460 00	392 60	217 50	242 80	5,494 34
Amount of Fines on Commitments to Workhouse.....	1,097 00	746 00	1,180 00	823 00	323 00	580 00	1,840 00	1,305 00	658 00	447 00	928 00	1,694 00	12,129 00
Amount of Costs on Commitments to Workhouse.....	351 55	348 95	372 20	312 75	373 15	345 05	360 10	462 55	266 55	268 30	278 85	529 85	4,299 85
Amount of Costs in Cases Nolle.....	18 00	72 60	16 20	20 20	18 00	.....	20 00	27 00	4 00	22 00	97 00	12 00	327 00
Amount of Costs in Cases Uncollected.....	79 75	34 80	107 65	52 60	140 35	32 15	51 00	24 15	10 10	46 10	89 85	14 90	683 40
Amount of Costs in Cases Dismissed.....	283 20	472 40	376 40	309 00	172 50	267 00	199 00	470 00	462 00	439 00	420 00	280 00	4,170 50
Amount of Costs in Cases on Error.....	138 30	230 35	.....	.....	49 65	145 45	209 60	47 85	.....	228 55	398 00	145 60	1,568 35
Total.....	2,546 05	2,913 25	3,170 60	2,961 40	1,979 90	2,845 20	3,690 89	4,455 60	2,648 65	1,843 55	3,399 20	5,047 15	37,501 44
STATE EXAMINATIONS.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Amount of Costs in Cases Bound Over.....	284 65	351 80	194 25	475 15	275 30	531 05	157 10	486 55	364 00	452 15	414 75	299 65	\$ 4,286 40
Amount of Costs in Cases Discharged.....	14 20	51 20	21 00	9 00	65 60	44 20	114 00	39 00	176 00	27 00	27 00	74 00	662 20
Amount of Costs in Cases Nolle.....	.....	.....	56 40	.....	48 00	37 20	.....	4 00	1 00	16 00	7 00	31 00	200 60
Total.....	278 85	403 00	271 65	481 15	388 90	612 45	271 10	529 55	541 00	485 15	418 75	404 65	\$ 5,129 20

RECAPITULATION.

JUSTICE CASES.

Breaking and entering houses, etc.....	1
Being concerned in a lottery or scheme of chance.....	1
Threatening in menacing manner.....	1
Disposing of mortgaged property.....	2
Violating Sunday labor law	1
Illegal voting.....	1
Verbal libel.....	4
Assault and battery.....	29
Embezzlement	2
Petit Larceny	1
Verbal slander.....	4
Destroying property.....	2
Attempt to provoke a breach of peace.....	2
Total.....	51

STATE EXAMINATIONS.

Attempted burglary.....	3
Assault with intent to wound.....	1
Cutting with intent to wound.....	31
Pocket picking.....	28
Grand larceny.....	55
Receiving stolen property	9
Forgery.....	5
Shooting with intent to wound	11
Cutting with intent to kill.....	5
Attempted burglary and larceny.....	1
Burglary and larceny.....	60
Robbery	30
Murder second degree.....	4
Assault with intent to kill.....	8
Shooting with intent to kill	17
Rape.....	14
Horse stealing	17
Bigamy	1
Meddling with railroad property.....	5
Abortion	2
Incest.....	2
Embezzlement	2
Arson.....	5
Manslaughter	11
Stabbing with intent to wound.....	1
Burglary	4
Assault to rob.....	10

REPORT OF THE POLICE COURT.

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Maiming	1
Uttering and publishing forged check.....	1
Burning property to prejudice insurance.....	2
Total.....	346

CITY CASES.

Intoxication.....	7,610
Disorderly conduct.....	427
Disturbance	313
Violating firearms ordinance.....	24
Violating sidewalk ordinance	354
Violating sewer ordinance.....	1
Violating peddlers' ordinance....	47
Violating health ordinance.....	3
Violating property ordinance	129
Violating express ordinance	5
Destroying property.....	40
Suspicious persons.....	306
Careless driving.....	19
Common beggar.....	48
Vagrancy	127
Common prostitute.....	210
Street soliciting.....	16
Violating street ordinance.....	57
Visiting house of ill fame.....	59
Violating music ordinance.....	10
Residing in house of ill fame.....	56
Violating bill posters' ordinance	14
Violating street railway ordinance.....	59
Violating bicycle ordinance.....	80
Visiting gambling room	10
Violating red light ordinance	4
Violating weight and measure ordinance	6
Violating plumbers' ordinance.....	7
Keeping house of ill fame	11
Keeping gambling room.....	1
Violating bathing ordinance.....	43
Violating park rules.....	10
Gambling	5
Soliciting trade in the street.....	3
Violating stall ordinance.....	2
Violating billiard ordinance	27
Violating stationary engineers' ordinance	22
Violating barbers' ordinance.....	4
Violating smoke ordinance	4
Violating moving van ordinance	9

Violating harbor ordinance.....	2
Using a sling.....	2
Petit larceny	30
Violating Sunday base ball ordinance.....	1
Violating gate ordinance	4
Allowing horse to run at large.....	10
Violating gas meter ordinance	1
Violating gas lamp ordinance.....	2
Known thief	1
Violating hay weighers' ordinance	1
Violating sprinkling ordinance ..	1
Assault and battery.....	20
Violating section 490	1
Suffering gaming device, etc.....	1
Violating midnight closing ordinance.....	18
Making oneself a part of noisy assemblage	1
Violating waiter girl ordinance.....	1
Total	10,280

STATE CASES.

Assault and battery.....	662
Petit larceny	822
Violating railroad law	933
Neglecting to send minors to school	23
Destroying property.....	26
Violation junk law.....	14
Keeping house of ill fame	11
Carrying concealed weapons	81
Keeping gambling room.....	4
Violating Sunday liquor law	84
Obtaining money by false pretense.....	13
Receiving stolen property	24
House breaking and larceny	3
Embezzlement	7
Selling cigarettes to minors.....	2
Neglecting minor children.....	53
Truancy	126
Defrauding innkeeper	9
Cruelty to animals.....	80
Incorrigible conduct.....	14
Violating Sunday labor law.....	13
Indecent exposure of person.....	16
Selling tobacco to minors.....	1
Suffering gaming in place	3
Adultery	6
Pointing firearms at a person	1

REPORT OF THE POLICE COURT.

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Threatening in a menacing manner.....	32
Selling intoxicating liquor to a minor	
Keeping opium joint	3
House breaking	3
Trespassing.....	3
Obtaining property by false pretense.....	3
Gambling	17
Malicious destruction of property	4
An assault.....	2
Wrongfully using a horse.....	13
Obstructing an officer	1
Contempt of Court	6
Intoxication.....	3
Injuring property	2
Car breaking ..	11
Keeping room for receiving and registering bets	2
Fugitive from justice.....	2
Escape from workhouse	4
Recording and registering bets	3
Selling liquor to intoxicated person	3
Buying stolen property.....	1
Selling false weight	4
False representing to be married and receiving proposal of marriage	1
Violating election law...	2
Violating gas law.....	1
Violating section 3467A.....	1
Violating railroad gate law	1
Giving away obscene literature.....	2
Wrongfully using an animal	4
Taking back property on condition }	
Sale without tender	1
Fornication	1
Selling pools.....	3
Violating pawn brokers' law	1
Suffering gaming device in place.....	2
Violating Sunday barber law.....	1
Personating an officer	1
Entering premises to carry away poultry.....	2
Total.....	3,085

DEPARTMENT

OF

FIRE SERVICE.

Report of the Director of Fire Service.

CITY OF CLEVELAND, OHIO, January 1st, 1899.

TO THE HON. ROBERT E. MCKISSON,
Mayor of Cleveland, Ohio.

DEAR SIR:—In submitting to you the report of the Department of Fire for the year ending December 31, 1899, containing the report of the Chief, Secretary, Superintendent of Machinery, Chief Operator, Boiler and Building Inspectors, Examiner of Engineers, City Electrician, Medical Officer, Department Veterinary and Fire Wardens, it will be useless for me to add anything more than what is contained in these reports.

The Secretary's report exhibits the resources and disbursements, the alarms and causes, the losses and insurance.

The Chief reports the condition and requirements, the establishing of new companies and the time of going into service, compares the loss of previous years, makes a summary statement of fires attended, miles run, fires worked at, hose used, hours worked, etc., making valuable suggestions as to future improvements.

The Superintendent of Machinery's report shows the condition of apparatus, additions made thereto, description of each engine and some recommendations.

The Medical Officer reports the diseases and injuries and the general health.

The Chief Operator, Building Inspector, Boiler Inspector, Examiner of Engineers and Electrician each give detailed statements of the condition of the respective branches of the department over which they have charge.

During the year a new engine house has been completed, located on Kinsman street near East Madison avenue. An additional engine company, Engine Company No. 26, has been organized and established therein and the department increased by the addition of ten men.

The fire boat pipe line has been extended 916 feet during the year, which will greatly aid the efficiency of this department.

I desire to express my thanks and appreciation to the Department of Public Works for favors extended by that department, and the prompt attention given to our requests for new hydrants, extending the fire boat pipe line and other much needed improvements.

In conclusion, I wish to state that the past year has been a very successful one, both financially and in efficiency of the work accomplished, and I desire to express my full appreciation of the Chief, his assistants and the members of the force to perform the various duties assigned them. Their united efforts have sustained the reputation of this department and have kept it in the front rank.

I desire also to thank the Police Department for the many courtesies extended in aiding this department at fires.

Very respectfully submitted,

G. L. HECHLER,
Director of Fire Service.

Report of the Secretary.

DEPARTMENT OF FIRE,

OFFICE OF THE SECRETARY,

January 1, 1899.

HON. G. L. HECHLER,

Director of Fire Service.

SIR:—I herewith submit my report for the year 1898.

Very respectfully,

A. J. SPENCER,

Secretary.

Violating harbor ordinance.....	2
Using a sling.....	2
Petit larceny	30
Violating Sunday base ball ordinance.....	1
Violating gate ordinance	4
Allowing horse to run at large.....	10
Violating gas meter ordinance	1
Violating gas lamp ordinance.....	2
Known thief	1
Violating hay weighers' ordinance	1
Violating sprinkling ordinance ..	1
Assault and battery.....	20
Violating section 490	1
Suffering gaming device, etc.....	1
Violating midnight closing ordinance.....	18
Making oneself a part of noisy assemblage	1
Violating waiter girl ordinance.....	1
Total	10,280

STATE CASES.

Assault and battery.....	662
Petit larceny	822
Violating railroad law	933
Neglecting to send minors to school	23
Destroying property.....	26
Violation junk law.....	14
Keeping house of ill fame	11
Carrying concealed weapons	81
Keeping gambling room.....	4
Violating Sunday liquor law	84
Obtaining money by false pretense.....	13
Receiving stolen property	24
House breaking and larceny	3
Embezzlement	7
Selling cigarettes to minors.....	2
Neglecting minor children.....	53
Truancy	126
Defrauding innkeeper	9
Cruelty to animals.....	80
Incorrigible conduct.....	14
Violating Sunday labor law.....	13
Indecent exposure of person.....	16
Selling tobacco to minors.....	1
Suffering gaming in place	3
Adultery	6
Pointing firearms at a person	1

REPORT OF THE POLICE COURT.

833

Threatening in a menacing manner.....	32
Selling intoxicating liquor to a minor	
Keeping opium joint	3
House breaking	3
Trespassing.....	3
Obtaining property by false pretense.....	3
Gambling	17
Malicious destruction of property	4
An assault.....	2
Wrongfully using a horse.....	13
Obstructing an officer	1
Contempt of Court	6
Intoxication.....	3
Injuring property	2
Car breaking ..	11
Keeping room for receiving and registering bets	2
Fugitive from justice.....	2
Escape from workhouse	4
Recording and registering bets	3
Selling liquor to intoxicated person	3
Buying stolen property.....	1
Selling false weight	4
False representing to be married and receiving proposal of marriage	1
Violating election law...	2
Violating gas law.....	1
Violating section 3467A.....	1
Violating railroad gate law	1
Giving away obscene literature.....	2
Wrongfully using an animal	4
Taking back property on condition }	
Sale without tender	1
Fornication	1
Selling pools.....	3
Violating pawn brokers' law	1
Suffering gaming device in place.....	2
Violating Sunday barber law.....	1
Personating an officer	1
Entering premises to carry away poultry.....	2
Total.....	3,085

DEPARTMENT

OF

FIRE SERVICE.

Report of the Director of Fire Service.

CITY OF CLEVELAND, OHIO, January 1st, 1899.

TO THE HON. ROBERT E. MCKISSON,
Mayor of Cleveland, Ohio.

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I desire also to thank the Police Department for the many courtesies extended in aiding this department at fires.

Very respectfully submitted,

G. L. HECHLER,
Director of Fire Service.

Report of the Secretary.

DEPARTMENT OF FIRE,

OFFICE OF THE SECRETARY,

January 1, 1899.

HON. G. L. HECHLER,

Director of Fire Service.

SIR:—I herewith submit my report for the year 1898.

Very respectfully,

A. J. SPENCER,

Secretary.

FIRE DEPARTMENT FUND 1898.

RESOURCES.		
Cash balance January 1, 1898.....	\$ 19,625 21	
Received from taxes, city levy, etc.....	446,842 79	
Received from license fees (Building Inspector, Examiner, etc.).....	6,316 85	
Received from license fees (Boiler Inspector).....	545 00	
Received from sales.....	1,458 70	
Received from transfers.....	12,350 00	
Received from rebates	73 07	
Total receipts.....		\$ 487,211 62

FIRE DEPARTMENT FUND 1898.—Concluded.

	DISBURSEMENTS.		
1	Interest.....	\$ 12,350 00	
2	Salaries.....	397,714 97	
3	.....	
4	Office furniture.....	2 75	
5	Station furniture.....	591 34	
6	Apparatus.....	1,868 50	
7	Horses and harness	3,341 65	
8	.....	
9	Office supplies and stationery.....	614 22	
10	Fuel, light, ice and water.....	8,282 18	
11	Care of horses (feed, bedding and shoeing)	12,609 64	
12	Repairs to apparatus.....	5,830 68	
13	Repairs to buildings	3,101 37	
14	Miscellaneous supplies.....	6,000 00	
15	.....	
16	Contingent	463 12	
17	Grading, paving, etc.....	697 07	
18	Land		
19	Buildings and reservoirs.....	12,069 34	
	Total disbursements 1898.....		\$ 465,486 83
	Balance January 1, 1899.....		\$ 21,724 79

COMPANY EXPENSES IN 1898.

Company.	Interest.	Salaries.	Office Supplies and Stationery.	Fuel and Light.	Care of Horses and Harness.	Repairs to Apparatus.	Repairs to Buildings.
Office	\$.....	\$ 1,599 84	\$ 70 37	\$.....	\$.....	\$.....	\$.....
Signal		7,216 91	31 90		59 06	50 94	
Engine Co. No. 1.....		18,528 12		513 31	1,297 72	329 10	14 59
" " 2.....		12,728 61		231 88	346 86	155 78	142 09
" " 3.....		9,658 40		337 29	428 87	84 48	11 77
" " 4.....		9,767 38		274 40	672 23	23 44	2 46
" " 5.....		9,890 45		199 59	177 10	175 53	308 59
" " 6.....		11,967 17		211 16	511 63	190 11	62 58
" " 7.....		10,018 47		208 22	276 71	209 00	433 22
" " 8.....		9,784 60		181 87	388 21	120 10	100 34
" " 9.....		9,539 99		268 91	390 72	104 13	155 56
" " 10.....		8,921 09		204 78	485 14	18 40	237 38
" " 11.....		9,115 52		207 58	309 02	88 48	279 32
" " 12.....		9,878 03		192 82	414 64	3 00	101 68
" " 13.....		9,136 09		196 92	285 31	110 37	21 45
" " 14.....		11,118 86		212 23	446 81	167 20	270 59
" " 15.....		9,100 70		1,325 84		297 04	30 57
" " 16.....		9,882 82		168 61	291 55	14 75	32 35
" " 17.....		9,690 18		343 85	567 70	171 03	101 48
" " 18.....		11,899 52		251 33	556 63	65 67	15 66
" " 19.....		9,222 46		211 64	243 45	24 61	17 67
" " 20.....		9,126 73		210 03	361 67	302 41	8 88
" " 21.....		9,694 29		898 64		211 15	20 21
" " 22.....		9,189 20		197 66	303 15	26 52	9 93
" " 23.....		9,077 46		197 93	442 69	136 48	15 96
" " 24.....		8,707 87		171 95	305 82	18 72	13 86
" " 25.....		9,155 26		309 31	485 51	35 21	22 11
" " 26.....		5,829 24		167 58	232 55	192 66	67 55

DEPARTMENT OF FIRE SERVICE.

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COMPANY EXPENSES IN 1898.

Miscellaneous Supplies.	Contingent Expenses.	Office Furniture.	Station Furniture.	Apparatus.	Horses and Harness.	Grading and Improving.	Buildings.	Totals.
\$ 5 21	\$ 3 00	.....	.....	.....	.....	.....	.....	\$ 1,678 43
683 81	.....	.....	6 00	241 36	.....	.....	.....	8,289 98
144 91	6 94	.....	24 75	.....	.....	71 22	.....	20,330 06
52 09	2 91	.....	.....	30 21	6 65	.....	.....	13,706 08
96 12	2 18	.....	.....	13 60	37 34	.....	.....	10,674 95
32 16	1 71	.....	.....	.....	31	44 21	.....	10,818 33
88 32	1 99	.....	86 50	.....	.....	.....	.....	10,928 47
59 29	2 30	.....	90	.....	1 60	.....	.....	12,996 74
71 53	2 04	.....	4 50	52 50	.....	.....	.....	11,276 19
36 02	1 37	.....	45 81	38 85	.....	.....	.....	10,695 17
33 16	2 06	.....	.....	.....	4 50	.....	.....	10,499 08
38 06	1 97	.....	2 00	.....	.....	.....	.....	9,904 32
117 35	1 26	.....	.....	58 00	.....	.....	.....	10,188 08
38 21	2 51	.....	.....	.....	.....	31 77	.....	10,663 26
26 08	1 59	.....	5 00	19 67	3 50	.....	.....	9,815 98
53 27	1 96	.....	.....	.....	5 50	84 62	.....	12,361 08
131 47	1 46	.....	4 75	.....	.....	.....	.....	10,891 88
34 80	1 43	.....	5 00	.....	.....	33 20	.....	10,464 51
59 10	1 76	.....	3 00	.....	.....	50 54	.....	10,988 64
37 64	2 47	.....	.....	.....	9 25	171 13	.....	13,009 30
26 29	1 89	.....	6 00	.....	23	.....	.....	9,754 24
30 38	1 37	.....	.....	.....	.....	.....	.....	10,041 42
113 01	66 60	.....	7 00	.....	.....	.....	.....	11,011 59
68 52	1 85	.....	.....	.....	.....	.....	.....	9,796 88
35 38	1 22	.....	4 15	.....	.....	.....	.....	9,911 29
27 81	1 33	.....	.....	.....	.....	.....	.....	9,247 66
37 12	1 43	.....	.....	.....	75	.....	.....	10,046 70
441 40	7 08	.....	274 19	90 00	46 50	110 00	2,605 27	10,063 82

COMPANY EXPENSES IN 1898—Concluded.

Company.	Interest.	Salaries.	Office Supplies and Station- ery.	Fuel and Light.	Care of Horses and Harness.	Repairs to Apparatus.	Repairs to Buildings.
New house, No. 18.....	\$.....	\$.....	\$.....	\$ 75	\$ 2 50	\$.....	\$.....
Hook and Ladder Co. No. 1.....		14,347 74			194 56	197 45	41 52
" " " 2		14,251 97			121 15	62 02	12 11
" " " 3.....		9,615 12			54 00	307 39	4 45
" " " 4.....		8,842 78			31 50	739 35	10 95
" " " 5.....		9,471 68		82 44	242 34	17 07	25 97
" " " 6.....		10,440 68			65 25	97 12	1 04
" " " 7.....		9,884 78			98 25	133 63	5 35
" " " 8.....		5,688 07			39 00		10 41
" " " 9.....		6,817 81			52 00	31 40	4 50
Hose Co. No. 1.		4,836 98			154 31	77 53	14 35
Training stable.....		2,632 50		74 12	663 25	95 41	109 47
Chief.....		3,178 27	3 33		53 75	11 46	
1st Assistant Chief.....		2,100 00			46 25	35	
2nd "		1,899 85			70 75	9 36	
3rd "		1,800 00			71 04	112 64	
4th "		1,775 04			56 50	3 65	19 30
5th "		1,699 92			57 50	34 49	
6th "		1,123 32			31 75	188 81	
Superintendent Machinery.....		1,300 00			55 75	35 00	
Building Inspector.....		6,100 08	192 44				
Boiler Inspectors.....		2,100 00	43 42		35 00	81 53	
Examiner of Engineers.....		1,500 00	15 01				
Electrician.....		1,500 00	19 34				
Undivided and storeroom.....	12,350 00	5,373 17	238 41	179 54	152 48	273 50	400 00
Totals	\$ 12,350 00	\$397,714 97	\$ 614 22	\$3,232 18	\$ 12,609 64	\$5,330 68	\$3,101 57

COMPANY EXPENSES IN 1898—Concluded.

Miscellaneous Supplies.	Contingent Expenses.	Office Furniture.	Station Furniture.	Apparatus.	Horses and Harness.	Grading and Improving.	Buildings.	Totals.
\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$.....	\$ 9,408 87	\$ 9,407 12
78 79	4 26		19 90	214 00	27			15,098 49
47 16	3 26		3 15	62 00				14,562 82
24 07	2 20							10,007 26
21 26	1 11							9,646 97
30 61	2 09					51 91		9,925 11
35 66	1 63							10,641 38
23 09	2 52							10,147 66
17 68	1 01							5,756 17
16 84	2 02							6,924 57
15 09	89		4 40					5,104 01
71 30	55				5 00			3,651 20
				300 00				3,546 81
6 34				300 00	1 64			2,454 58
77				175 00	2 75			2,158 48
4 80					5 25			1,993 73
3 45					85			1,858 99
1 00								1,792 91
89 73			63 00	15 00	20 75			1,532 36
18 56								1,409 91
16 70	12 20	2 75						6,324 17
								2,259 95
								1,515 01
18 03	1 00							1,538 37
2,839 91	302 21				3,188 98	48 47		25,623 42
\$ 6,000 00	\$ 463 12	\$ 2 75	\$ 591 34	\$ 1,868 50	\$ 3,341 65	\$ 697 07	\$ 12,069 34	\$ 465,486 83

CONDITION OF THE FIREMEN'S PENSION FUND, 1898.

RESOURCES.		
Cash balance January 1, 1898.....	\$ 30,013 26	
Tax collection on Foreign Insurance.....	51,248 53	
Coupons—Interest on bonds.....	10,662 50	
Interest on cash deposits.....	1,609 53	
Assessments on salaries.....	1,887 62	
Donations.....	555 00	
Fines.....	60 00	
Witness fees.....	72 00	
Total cash receipts.....		\$ 96,108 44
Amount invested in bonds.....		245,500 00
DISBURSEMENTS.		
Cash paid to pensioners.....	\$ 27,896 93	
Cash paid W. J. Hays & Son for 5 bonds.....	50,000 00	
Cash paid W. J. Hays & Son for premium.....	8,250 00	
Cash paid W. J. Hays & Son for interest on same.....	255 55	
Cash paid for box rent 1 year.....	20 00	
Total expenditures.....		\$ 86,422 48
Cash balance on hand January 1, 1899.....		\$ 9,686 96

There are on the Pension Pay Roll:

Retired members.....34
Widows of deceased firemen.....31
Children.....33

—
98 beneficiaries.

H. B.

No. 820.

AN ACT

To create and perpetuate a board of trustees of the Firemen's Pension Fund; to provide and distribute such fund for the pensioning of disabled firemen and cadet employes and the widows and dependent children, mothers or fathers of deceased firemen and cadet employes; to authorize the retirement from all service of disabled members and cadet employes and all members after a service of twenty-five years, and the pensioning of such members of the paid fire department; and for other purposes in connection therewith, in cities of the second grade of the first class, and to repeal the act of April 30, 1886, creating such board.

SECTION 1. Be it enacted by the General Assembly of the State of Ohio, That the mayor, city solicitor, and director or person or persons having charge or control of the fire department in any city of the first class, second grade, and three other persons members of the fire department in such cities elected as hereinafter provided, and the successors of each of the above, shall constitute and be the trustees for the distribution of the pension fund now existing or hereafter provided, and shall be called the "board of trustees of the Firemen's Pension Fund."

SECTION 2. Six members of the fire department shall be nominated for such office of trustee in a convention to be composed of one delegate from each fire company, fire alarm telegraph company, and from the general office belonging to the fire department of any such cities, and called by the chief of such fire department and convened at least two weeks prior to the election of such trustees. That such election shall be held in the respective houses or headquarters of such fire companies, telegraph department and general office, and be by

ballot cast by the members of the said fire department between the hours of nine o'clock in the forenoon and six o'clock in the afternoon on the first Tuesday of January in each and every year hereafter, but the present trustees of the fire department shall serve out the term for which they were elected. That every such member shall be entitled to cast only one ballot, and no ballot shall contain the names of more than three persons, and the three persons receiving the highest number of votes shall be declared elected as such trustees, and hold their office until their successors are duly elected. That the officer in command of any such company, on the day of and immediately after holding such election, shall canvass, count and certify in writing the number of ballots cast and the votes received by each candidate for the office of trustee. After signing such certificate, said officer in command shall at once address and deliver the same to the secretary of the said board of trustees. That the president and secretary of the said board of trustees shall together, within three days after receipt of such certificates by said secretary, open the same and ascertain and determine the total number of votes so cast at said election for the different persons for the office of trustee, as returned by the said officer in command, and under the respective hands of such president and secretary, issue certificates of their election to the three persons elected as such trustees. In case of a tie vote being received by any two persons for the office of said trustee, such tie vote shall be decided by casting lots or in any other way which may be agreed upon, by and between the persons for whom such tie vote was cast. No election shall be set aside for want of formality in balloting by such members, or certifying or remitting the returns of any such election by said officer in charge.

SECTION 3. The mayor, and secretary of the fire department in such cities shall also be respectively the president and secretary of the said board of trustees of the Firemen's Pension Fund. It is hereby made the duty of the secretary to keep a full record of all the proceedings of the said board of trustees, and the board shall make all needful rules and regulations for its government in the discharge of its duties, and

shall hear and determine all applications for relief or pensions under this act.

SECTION 4. That the county treasurers of the counties containing a city of the second grade of the first class shall semi-annually, at the time of their semi-annual settlement with the auditors of their respective counties, pay over to the treasurer of such cities one-half of the amount under his annual levy of all the taxes paid into the treasury of such county by insurance companies incorporated by the authority of any other state or government and doing business in any such cities, on the gross receipts of every such insurance company under and by virtue of the provisions of section 2745 of the Revised Statutes during the half year preceding such semi-annual settlement, and the money so paid over to such city treasurer shall, together with the amount heretofore so paid, constitute a pension fund for the purposes and objects herein-after set forth.

SECTION 5. In case any such insurance company shall fail to make return to the office of the auditor of the county in which the office or agency of such insurance company may be kept, in the month of May, annually, the amount of gross receipts of such agency for entry upon the tax list of the proper county, such auditor shall forthwith give notice of such failure to the superintendent of insurance, and said superintendent shall upon the receipt of such notice from said auditor, forthwith revoke and recall the license and authority to such insurance company to do or transact business within this state. And no renewal of authority shall be granted to such insurance company for three years after such revocation; and it shall be prohibited from transacting any business in this state until again duly licensed and authorized so to do, and the said returns shall have been duly made. In each and every case of the failure of the said auditor to give such notice to said superintendent of insurance, such auditor shall forfeit and pay to said city for the use and benefit of the said pension fund the sum of one thousand dollars, such forfeiture to be recovered of said auditor in an action at law therefor, brought against him by any person, in the name of any such city, and before any court of competent jurisdiction.

•

SECTION 6. That it shall be the duty of the said auditor to make out and deliver to the said board of trustees, annually, on the first of July, in each and every year hereafter, a correct statement of the name and the agent's name of every such insurance company so doing business in said city, together with the amount of the gross receipts of every such insurance company as returned by said agent or company to said auditor for the year previous to such first day of July. In case of the failure of said auditor to so make out and deliver to the said board of trustees any such annual statement at the time named in each and every year hereafter, such auditor shall forfeit and pay to said board of trustees for the use and benefit of the said pension fund, the sum of five hundred dollars. Said forfeiture to be sued for and recovered of such auditor in an action at law brought against him by any person, in the name of any such city, and before any court of competent jurisdiction.

SECTION 7. That it shall be the duty of the treasurer of the said county to make out and deliver to the said board of trustees on the first days of January and July, in each and every year hereafter, a statement of the name of every such insurance company doing business in the said city, together with the amount of the taxes paid into the treasury of such county by such insurance company for the year, or part thereof, prior to the making and delivery of such semi-annual statement of such treasurer to such board of trustees. And in case of the failure of said treasurer to so make out and deliver such semi-annual statement to the said board of trustees at the times named in each and every year hereafter, such treasurer shall forfeit and pay to said board of trustees for the use and benefit of said pension fund, the sum of five hundred dollars. Such forfeiture to be sued for and recovered against him in an action therefor, brought by any person, in the name of such city, before any court of competent jurisdiction.

SECTION 8. That the director, person or persons having control and charge of the fire service in said cities, may impose fines upon any member of the fire department in any such cities by way of discipline or punishment; detain and collect the same from the pay or salary of such member, and

such fines, together with all rewards in money, fees, gifts and emoluments that may be paid or given specially to said pension fund on account of extraordinary services by said fire department, or any member thereof (except when allowed to be retained by such member, or given to endow a medal, or other permanent or competitive reward), and all proceeds of suits for penalties for the violation of any provision of any statute of this state or ordinances of said cities with the execution of which the said fire department or any of its officers and members is now or hereafter may be charged, and any license or other fees payable under the same, also all witness fees of every nature whatsoever, when the salary of any member of said fire department is not effected [affected] by its absence while serving as such witness, shall be paid to and received by the treasurer and applied by him to the said pension fund. And the said board of trustees may take by gift, grant, devise, or bequest, any money, real estate or personal property, right of property or other valuable thing, and such money, real estate or personal property, right of property, or other valuable thing so obtained shall in like manner be paid to and applied by such city treasurer to the said pension fund, and also to the use of such fund by deposit, investment or profit as hereinafter provided, or as such board of trustees shall direct.

SECTION 9. That every member or cadet employe of said fire department shall be assessed a portion of his salary, and such assessment shall not be less than one-half of one per centum or more than one per centum of his compensation, and all such assessments shall be applied to the pension fund, provided, however, that in no case shall the assessment of any one person exceed fifteen dollars per annum. The board of pension trustees shall have discretionary power to fix the rate of assessment within the limits herein prescribed. The secretary of the fire department shall place opposite the name of every member of the fire department and cadet employe on the pay roll the amount of the assessment on each individual's salary, and the city treasurer shall, monthly, deduct from the salary of every member of the said fire department and cadet employe the sum set opposite his name, and shall deposit the same to the credit of the pension fund.

SECTION 10. That the treasurer of every such city shall be the custodian of such pension fund, and for the faithful performance of his duties as herein provided, he shall be held under his official bond given to such city as now provided for by law.

SECTION 11. That the said board of trustees shall draw such portion of said pension fund from the treasury of such city as it shall deem advisable, and invest the same in the name of the "Board of Trustees of the Firemen's Pension Fund" in interest bearing bonds of the United States, the State of Ohio, or any county in this state, or of said cities, or of any township, incorporated village, or other municipal corporation in the said State of Ohio, or without the state when the power to issue such bonds is derived from either general or special legislative authority. The president and secretary of such board shall collect the interest on all bonds and place the same to the credit of the said fund. That the said bonds shall, before the same are issued to the said board of trustees, be registered in the office of the treasurer of the United States or state of Ohio, county, city, township, incorporated village or other municipal corporation in this state or other states issuing the same, and bear upon their face the printed or legibly written fact of such registry, together with the book and page and date and place of such registry. The said board of trustees shall make report to the council of the condition of said pension fund on the first day of January in each and every year.

SECTION 12. If any member or cadet employe of the said fire department of any such city, shall, while in the performance of his duty, become or be found upon examination by a medical officer ordered by the director, person or persons having charge and control of the fire department in such city, to be physically or mentally permanently disabled so as to render necessary his retirement from all service in the said fire department, such director, person or persons having charge of said fire service shall retire such permanently disabled person from all service in said fire department, and the board of trustees of the pension fund shall authorize the payment to such permanently disabled person, monthly, from

the pension fund, the sum provided in section 14 of this act, according to compensation and term of service in said fire department. When any member of said fire department, or retired member on the pension fund thereof dies from any cause whatever and leaves a widow, child or children under sixteen years of age, the board of trustees shall authorize the payment to such widow, while unmarried, and child or children under sixteen years of age, monthly, from the pension fund, the sum or sums provided in section 14 of this act, according to compensation and term of service of such deceased member in said fire department; or if any deceased member shall leave a dependent mother or father, upon satisfactory proof that such mother or father was dependent upon said deceased member of the fire department, the board of trustees shall authorize the payment to such dependent mother or father, monthly, from the pension fund, the sum provided in section 14 of this act according to compensation and term of service of such deceased member in said fire department; provided, however, that no pension shall be paid to the mother or father of the deceased member who leaves a dependent widow; and if the widow of any deceased member shall re-marry, her pension shall cease. If any member or cadet employe of such fire department who has been in the service of the department less than ten years, shall, while in the performance of his duty in said fire department, be killed or receive an injury that results in his death, if such killing or such fatal injury is clearly and conclusively proven, the board of trustees shall authorize the payment to the dependent widow, child or children under sixteen years of age, mother or father, monthly, from the pension fund the sum or sums as provided for dependents of deceased members between ten and twenty-five years in the service, in section 14 of this act. If any member or cadet employe of such fire department who has been in the service of the department less than ten years, shall, while in the performance of his duty in said fire department, become so crippled by an accident as to constitute a permanent total disability, the director, or person or persons in charge of the fire service, shall upon clear and conclusive proof that said disability was caused by an accident received while in the actual performance of his duty, retire such per-

manently disabled member, and the board of pension trustees shall authorize the payment to such disabled member the sum as provided for permanently disabled members of the fire department in the service between ten and twenty-five years, in section 14 of this act.

SECTION 13. That if at any time there should not be sufficient money or bonds to the credit of said pension fund to pay to each person entitled to the benefit thereof the full amount per month as hereinbefore stated, then, and in that event, an equal percentage of said monthly payments shall be made to each beneficiary thereof, until said fund is so replenished as to warrant payment in full to each of said beneficiaries.

SECTION 14. The sums to be paid to permanently disabled members and cadet employes and the widows and orphans, or dependent mothers or fathers of deceased members, shall be as follows: Those in the service of said fire department under five years, upon retirement, shall receive, monthly, an amount equal to one-eighth of the salary received by them at the time of their retirement, and in the event of their death while in the service of the department or after retirement, their widows, while unmarried, shall receive five dollars per month, and their children under sixteen years of age, three dollars per month each; those in the service of the paid fire department over five and under ten consecutive years shall, upon retirement, receive three-sixteenths of their salary, per month, and in the event of their decease while in the service of the department or after retirement, their widows shall receive ten dollars per month and their children under sixteen years of age four dollars per month each; those in the service of the paid fire department over ten and under twenty-five consecutive years shall, upon retirement, receive ten-sixteenths of their salary, per month, and in the event of their decease while in the service of the fire department or after retirement, their widow shall receive twenty dollars per month and their children under sixteen years of age six dollars per month each; those in the service of the paid fire department twenty-five consecutive years or over, shall, upon retirement, receive eleven-sixteenths of their salary per month, and in the event

of their decease, while in the service of the department or after retirement, their widows shall receive twenty-five dollars per month, and their children under sixteen years of age seven dollars per month. Any member of such paid fire department who has been in the service of said paid fire department twenty-five years, the last twelve years consecutively, upon making written application to the director, person or persons having charge of the fire service, at his own option, may, without medical examination, be retired from all service in said fire department, and upon such retirement the board of pension trustees shall authorize the payment to such retired member, monthly, from the pension fund an amount equal to ten-sixteenths of his salary at the time of retirement. Any member of such fire department who has been in the service of said paid fire department thirty years, the last twelve years consecutively, may, upon making written application to the director, person or persons in charge of the fire service of such city, retire at his own option without medical examination, and the board of pension trustees shall authorize the payment to such member so retired, monthly, from the pension fund a sum equal to eleven-sixteenths of his salary at the time of retirement. The pension of the dependents of such retired member shall be the same in case of death after retirement as provided for dependents of those who die in the service or after retirement, but the member so retired without special disability shall always receive the same amount of pension as when he retired. In no case shall the amount of any pension exceed seventy-five dollars per month, except the pensioner shall have been in the service of said fire department thirty years, the last twelve consecutively, and in that event they shall receive eighty dollars per month, when eleven-sixteenths of their salary equals that sum, but no more. The pension of the dependent mother or father of a deceased member who dies in the service of the fire department shall be the same as that provided for his widow. That any member who may be discharged from the fire department after having served not less than twenty-two consecutive years, shall be placed on the pension roll at six-sixteenths of his salary at the time of his discharge, provided such discharge is for any other offense than dishonesty, intoxication, or a criminal act, and in the

event of the death of such member after retirement if he leaves a widow or dependents they shall receive the amounts provided for the dependents of those as in sections twelve and fourteen of this act. In no case shall the board of trustees depart from the provisions of this section in authorizing the payment of pensions.

SECTION 15. This act shall apply to all persons receiving pensions from the Firemen's Pension Fund of such cities, who have been placed on such pension fund under any former law or laws, except widows or children of deceased members of such fire department, who shall receive the same as they were receiving at the time of the passage of this act. And in any application for pension now pending before the board of trustees, the board herein created may, in its discretion, place such dependents in the class of pensioners as provided in sections 12 and 14 of this act.

SECTION 16. That the payment of the said pensions shall be made by drafts drawn by the order of said board of trustees, signed by the president and countersigned by the said secretary; but nothing in this act contained shall render any payment of such pension obligatory upon the said board of trustees or any member thereof or chargeable as a matter of legal right, and the said board of trustees may at any time order such pension to be reduced or cease, and the decision of the board on all applications for relief or pensions shall be final and conclusive, and not subject to review or reversal except by such board.

SECTION 17. That no portion of the said pension fund shall, either before or after its order of distribution by the said board of trustees to such disabled member of said fire department or to the widow or guardian of child or children or to the dependent mother or father of a deceased or retired member of such department, be held, seized, taken, subjugated to, detained or levied on by virtue of any attachment, execution, injunction, writ, interlocutory or other order or decree, or any process or proceedings whatever issued out of or by any court in this state for the payment or satisfaction, in whole or in part, of any debt, damages, claim, demand, judgment, fine or amercement of such member, or his said widow,

or the guardian of child or children, or of the dependent mother or father of any deceased member; but the said funds shall be sacredly held, kept, secured, promoted and distributed for the purpose of pensioning the persons named in this act and for no other purpose whatever. Provided the said board may expend annually not to exceed fifty dollars from such fund, and the necessary expenses connected therewith.

SECTION 18. That an act passed April 30th, 1886, creating such board of trustees and all acts or parts of acts inconsistent with this act be and the same are hereby repealed.

SECTION 19. This act shall take effect and be in force from and after its passage.

NIAL R. HYSELL,

Speaker of the House of Representatives.

WILLIAM V. MARQUIS,

President of the Senate.

Passed April 18, 1890.

UNITED STATES OF AMERICA, OHIO, }

Office of the Secretary of State. }

I, DANIEL J. RYAN, Secretary of State of the State of Ohio, do hereby certify that the foregoing is an exemplified copy, carefully compared by me with the original rolls now on file in this office, and in my official custody as Secretary of State as required by the laws of the State of Ohio, of an act passed by the General Assembly of the State of Ohio, on the 18th day of April, A. D. 1890.

In Testimony Whereof, I have hereunto subscribed my name, and affixed my official Seal, at Columbus, the 19th day of April, A. D. 1890.

[SEAL.]

DANIEL J. RYAN,

Secretary of State.

NUMBER OF MEN ON FIRE FORCE DECEMBER

31, 1898.

[illegible]

NUMBER OF MEN ON FIRE FORCE DECEMBER
31, 1898—Concluded.

	Chief, et. al.	Captains.	Lieutenants.	Engineers.	Assistant Engineers.	Firemen.	Cadets at \$75.	Cadets at \$70.	Cadets at \$60.	Cadets at \$50.	Substitutes.	Totals.
<i>Forward</i>												
Engine Co. No. 12	1	1	1	1	1	5		1				10
" 13	1	1	1	1	1	5						9
" 14	1	1	1	1	1	6		2				12
" 15	1	1	1	1	1	5						9
" 16	1	1	1	1	1	6						10
" 17	1	1	1	1	1	4		2				10
" 18	1		1	1	1	8	1					12
" 19	1	1	1	1	1	4		1		1		10
" 20	1	1	1	1	1	5						9
" 21	1	1	1	1	1	3	2			2		11
" 22	1	1	1	1	1	5						9
" 23	1	1	1	1	1	5						9
" 24	1	1	1	1	1	5						9
" 25	1	1	1	1	1	4		1				9
" 26	1	1	1	1	1	4		1				9
Hose Co. No. 1	1	1				2		1				5
Hook and Ladder Co. No. 1	1	1				11	1	1		1		16
" " 2	1	1				12		1				15
" " 3	1	1				7		1				10
" " 4	1	1				7						9
" " 5	1	1				7		1				10
" " 6	1	1				6	1	1		1		11
" " 7	1	1				8						10
" " 8	1					4		1				6
" " 9	1					6						7
Training Stable						2						2
Totals	20	36	36	27	25	212	5	20	1	10		392

ALARMS, LOSSES AND INSURANCE IN 1898.

1898.	Box Alarms	Still Alarms	Total Alarms	Owners' Loss.	Occupants' Loss.	Owners' Insurance.	Occupants' Insurance.
January	63	24	87	\$ 33,017 84	\$ 24,024 33	\$ 303,450 00	\$ 17,240 00
February	46	17	63	46,720 67	169,326 05	172,100 00	423,400 00
March	62	17	79	9,549 58	2,802 25	153,200 00	27,550 00
April	78	25	103	10,148 05	5,740 56	119,800 00	38,350 00
May	64	17	81	25,196 74	156,914 74	345,683 00	1,804,550 00
June	71	30	101	9,196 62	7,780 24	84,760 00	63,100 00
July	106	46	152	57,556 73	86,101 50	195,115 00	158,150 00
August	69	30	99	6,843 88	9,126 69	92,525 00	55,850 00
September	69	28	97	52,653 77	31,460 57	201,600 00	65,471 00
October	63	24	87	10,440 27	3,725 44	187,404 00	20,350 00
November	86	22	108	72,115 64	1,996 95	130,150 00	17,950 00
December	87	33	125	23,992 68	16,449 88	406,625 00	46,010 00
Totals	864	318	1,182	\$356,432 47	\$515,449 40	\$2,392,352 00	\$2,737,931 00

Owners' Loss \$356,432 47
Occupants' Loss 515,449 40

Owners' Insurance..... \$2,392,352 00
Occupants' Insurance... 2,737,931 00

Total Loss \$871,881 87

Total Insurance..... \$5,130,283 00

Total Loss, 1898..... \$871,881 87

" 1897..... 578,054 26

\$293,827 61 Difference.

OFFICERS AND MEMBERS WITH SALARIES.

	Men.	Salaries per Annum.
Chief, J. W. Dickinson.....	1	\$ 3,500 00
1st Asst. Chief, H. H. Rebbeck.....	1	2,100 00
2d Asst. Chief, G. A. Wallace.....	1	1,900 00
3d Asst. Chief, John Andrew.....	1	1,800 00
4th Asst. Chief, Charles Dougherty.....	1	1,785 00
5th Asst. Chief, Henry J. Delaney.....	1	1,700 00
6th Asst. Chief, Sheldon Wright.....	1	1,685 00
Secretary, A. J. Spencer.....	1	1,600 00
Supt. of Machinery, C. D. Murphy.....	1	1,300 00
Storekeeper, P. H. Auxer.....	1	1,020 00
Medical Officer, D. L. Travis.....	1	1,140 00
Veterinary, N. H. Downs.....	1	1,140 00
Fire Wardens, Erwin Reif, Frank Miller, each.....	2	1,140 00
Painter, Conrad Lippus.....	1	720 00
Chief Operator, Joseph Rothgery.....	1	1,200 00
Operators, each.....	3	1,030 00
Linemen.....	1	1,030 00
Captains, each.....	36	1,150 00
Lieutenants, each.....	36	1,030 00
Engineers, each.....	27	1,140 00
Assistant Engineers, each.....	25	1,020 00
Firemen, each.....	212	980 00
Cadets at \$75 each.....	5	900 00
Cadets at \$70 each.....		
Cadets at \$60 each.....	20	720 00
Cadets at \$50 each.....	1	600 00
Subs, on account of vacancies.....	10	600 00
On Fire Force.....	392	
Building Inspector, J. E. Thomas.....	1	2,500 00
Assistant Building Inspector, W. D. Campbell.....	1	1,500 00
Deputy Building Inspector, J. D. Cockburn.....	1	1,200 00

OFFICERS AND MEMBERS WITH SALARIES — Concluded.

	' Men.	Salaries per Annum.
Deputy Building Inspector, H. J. Ellen.....	1	\$ 900 00
Boiler Inspector, Thomas Caldwell.....	1	1,500 00
Clerk Boiler Inspector, Jacob Willard	1	600 00
Examiner of Engineers, F. G. Kaufholz.....	1	1,500 00
Electrician, G. M. Hoag	1	1,500 00
Names on pay roll	400	

DEPARTMENT OF FIRE SERVICE.

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ALARMS AND CAUSES IN 1898.

Causes.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Accident	1	1	1	1	1	1	1	1	1	1	1	1	6
Ash vault											2		2
Bonfire	1												1
Boys smoking			1			1							2
Boys with fire			1		2		2						5
Boys with matches	1	2	2	1		1							7
Boys with lamp	1												1
Boys lighting fire with coal oil.							1						1
Boy as Santa Claus.....											1		1
Box car set on fire to get old } iron								1					1
Bottom falling out of cupola ..					1								1
Carelessness	1	2	1	1	3	4	1	1		1	2	2	19
Carelessness with gasoline.....	1	1	1	2	3	4	10	10	5	5	3	3	48
Carelessness with matches.....	9	2	3	4	1	2	4	6	4	4	2	11	52
Carelessness with lamp.....	3		3	2	1			1	1	3			14
Carelessness with cigar		1			1	1	1			3			7
Carelessness with glue pot.....					1								1
Carelessness with oily rags								1					1
Carelessness with paper		1					1						2
Carelessness with coal oil.....								1		1	2		4
Carelessness with hot ashes.....	1		1		1			1		1		1	6
Carelessness with gas jet			2	2			1			2			7
Careless with hot flat iron										1			1
Carelessness with oil stove	3				1				1				5
Carelessness with gasol'e stove	1	1				1			4	2	3	2	14
Carelessness with alcohol.....		1											1
Carelessness with waste								1					1
Carelessness with stove.....		1											1
Carelessness with hot coal					1								1
Carelessness with benzine		1				2		1		2			6
Carelessness with candle			1				1				1		3
Carelessness with pipe.....							1						1

DEPARTMENT OF FIRE SERVICE.

ALARMS AND CAUSES IN 1898—Continued.

[illegible]

865

[illegible]

ALARMS AND CAUSES IN 1898—Continued.

Causes.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Totals.
Lamp upset.....	1		1	3	2							3	10
Leaky still				1			1						2
Leaky steam pipe.....			1										1
Leaky gasoline stove	1	1	1		4	4	4	7	3	1	2	1	29
Leaky lamp	1												1
Leaky gas jet.....						1					1		2
Lard boiling over											1		1
Loose paper over stove pipe.....											1		1
Lounge too close to stove.....											1		1
Lightning					1	1	1		3				6
Matches in clothes closet.....										1			1
No stopper in chimney		1	1										2
Oil on street										1			1
Overheating				1			2					2	5
Overheated journal									1				1
Overheated kettle			1	1			1			1	1		5
Overheated furnace		2	3						1	1	1	2	10
Overheated grate		1											1
Overheated steampipe												1	1
Overheated flask	1												1
Overheated oven	1			1	1								3
Overheated dry-room									1				1
Overheated smoke-house	1												1
Overheated stove pipe			2										2
Overheated stove	4	3	1	3		1		2		1	1	5	21
Old fire broke out.....	2					1	2		5	2	2	2	16
Out of city.....			3	1		2	1	1	2	3	1	1	15
Ordered burned by H'lth Officer											1	1	2
Portable oven too near wood					1								1
Paper in grate			1										1
Paper too near stove.....							1				1		2
Rats or mice with matches		1		1	1						1	1	5

ALARMS AND CAUSES IN 1898—Concluded.

Causes.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Totals.
Reflection		1								1		1	3
Rubbish burning			3	2	1	8	13	5	6	3	7	2	60
Set on fire by boys						1	1	1			1		4
Sparks.....	6	3	11	29	12	19	13	16	12	6	13	6	146
Spontaneous combustion	1	1					2	3	5		4	1	17
Steel mould					1								1
Smoke.....			1				1		1	1			4
Smoky chimney		1	3	3	2	2						1	12
Smoky furnace		1			1	1	1				1		5
Smoky oil stove						1							1
Smoky stove.....		1				1	1	1				1	5
Steam pipe too near wood												1	1
Swinging gas bracket.....						1	2	1	1				5
Stove too near woodwork.....		1	2	1					1		1	2	8
Stove upset.....	1										1	1	3
Stove pipe too near woodwork..					1						2		3
Thawing pipes	1	1									1	2	5
Tramps					1		2					1	4
Testing oil.....											1		1
Tar boiling over	1									1			2
Unknown.....	14	6	8	12	10	13	26	14	16	9	11	15	154
Unnecessary	2	1		2		1		1	1	1	3	2	14
Upset lamplighter's cart		1	1										2
Wood too near stove.....												1	1
Woodwork too near boiler.....								2		1	1		4
Woodwork too near chimney...												1	1
Woodwork too near cupola												1	1
Totals	87	63	79	103	81	101	152	99	97	87	108	125	1,182

LIST OF CASUALTIES IN 1898.

January 15th.—Fire at Music Hall, Vincent street, Lieut. John Waterbury, and Firemen John Conway, Frank Gillett and Max Gross were slightly burned.

January 16th.—Fire at Ranney Bros., 34 and 36 East River, Lieut. Daniel Finucan cut his hand badly.

February 19th.—Fire at Holy Name Parish, 2506 Broadway, Sister Elizabeth was slightly burned about the hands and arms through carelessness with benzine.

February 23d.—While responding to a fire at 507 Woodland avenue, Engineer Frank Hughes fell down the sliding pole and was badly hurt.

March 23d.—Fire at 2550 Superior street, the owner, Mr. M. Sattler, was badly burned on hands.

March 25th.—Fire at 19 Eben street, by the upsetting of a lamp Mrs. Mary Ryan's hand and arms were slightly burned.

April 4th.—Department called to render aid on Streater avenue, men overcome with sewer gas, Fireman Vincent Vorher overcome while rescuing a man.

April 6th.—Fire at 170 Davenport street, Mrs. Carey fell from a ladder and was badly hurt.

April 10th.—Fire at 590 St. Clair street, Mr. Bates was slightly burned on hands and face.

April 14th.—Fire at 1897 E. Madison avenue, Mrs. Favatky's arms burned.

April 15th.—Fire at 1915 Euclid avenue, one horse burned to death.

May 1st.—Fire at 92 Holmden avenue, Dr. Dennerly slightly burned.

May 3d.—Fire at 18 Camden street, a mule burned to death.

May 12th.—Fire at 20 Norwood avenue, a horse burned to death.

May 21st.—Fire at 924 Central avenue, Mrs. Dover's arms slightly burned by gasoline.

May 28th.—Fire at corner River and Front streets, an extinguisher exploded and Capt. Sanford Stephens was injured on head.

June 5th.—Fire at 1¼ Professor street, Mrs. Sebrell was slightly burned by the careless use of gasoline.

June 9th.—Fire at 92 Croton street, John Novi, hands and face slightly burned by gasoline.

June 18th.—Fire at 34 Dover street, Miss Jennie Dust's hands burned by gasoline.

June 23d.—Fire at 912 Payne avenue, Mrs. Skowranski burned on face by gasoline.

June 24th.—Fire at 32 Melvin avenue, Mrs. S. Ferris burned on hands by gasoline.

July 1st.—Fire at 132 Jefferson street, Fireman Sylvester Esterle was thrown from the engine and received injuries which resulted in his death.

July 2nd.—Fire at 2546 Broadway, Charles Keller burned on hands and face by fireworks.

July 2nd.—Fire at 208 Ontario street, Thos. Jones, of H. and L. Co. No. 7, was badly cut by falling glass.

July 3d.—Fire at 703 St. Clair street, John Slipman was badly burned.

July 3d.—Fire at 1327 Pearl street, a horse and two cows were burned to death.

July 4th.—Fire at 189 Iona street, Minnie Schilk, 14 years old, and Baby Schilk, 19 months old, burned to death by gasoline.

July 7th.—Fire at 197 Buhner avenue, Angus Tod badly burned on hands and face.

July 9th.—Fire at 268 Erie street, C. W. Ashbrand jumped from a sixth story window and was killed. Horace E. Potter jumped from a 6-story window and was caught in the life-net and sent to the hospital.

July 11th.—Fire at 137 Wageman street, an unknown man was burned to death.

July 11th.—Fire at 236 Washington street, two horses burned to death.

July 17th.—Fire at 22 Maple street, Mr. C. P. Hanell's face and hands slightly burned by gasoline.

August 1st.—Fire at 789 lake street, Mrs. Adams burned on face and shoulders, James Woods burned on face and shoulders, caused by an explosion of a gasoline stove.

August 13th.—Fire at 877 Woodland avenue, Miss Mable's hands badly burned.

August 14.—Fire at 1314 Euclid avenue, Capt. Gorman, Capt. Knapp, Lieut. Jackson and Firemen Thos. Hilton, W. Dettman, P. Nickolson and G. Reichwein were injured by roof falling in.

August 23d.—Fire at 912 Payne avenue, Miss Martha Dirsing burned to death.

August 26th.—Fire at 1251 Case avenue, Adolph Horka slightly burned on hands.

September 2nd.—Fire at 107 Carran street, Mrs. Bertha Weber badly burned.

September 7th.—Fire at 16 Merchants avenue, 39 horses burned to death.

September 11th.—Fire at 16 Schaler street, S. Gunoff burned his hands.

August 15th.—Fire on steam barge Oscar T. Flint, Capt, Whyler fell into the vessel's hold, broke his arm and dislocated his shoulder.

September 19th.—Fire at 118 E. Prospect street, explosion of gasoline, James Bell seriously burned.

November 5th.—Fire at 2254 St. Clair street, gasoline tank exploded, John Stick burned on hands and face.

November 26th.—Fire at 865 Payne avenue, E. Slaterman burned on hands.

December 3d.—Fire at 136 Ontario street, George S. Waters burned on hands and face.

December 8th.—Fire at 281 Oregon street, A. Schleicher slightly burned on hands and face.

December 21st.—Fire at 2360 Broadway, Robert Harrington badly burned while playing Santa Claus.

December 22nd.—Fire at 16 Prosser street, Mr. Taylor's hands and face slightly burned.

December 23d.—Fire at 237 Perry street, E. C. Proctor slightly burned.

December 25th.—Fire at 101 Detroit street, Mrs. Minnie Garney so badly burned about neck and body that she died on January 9, 1899.

Report of Chief.

CLEVELAND, OHIO, January 1, 1899.

HON. G. L. HECHLER,

Director of Fire Service.

SIR:—I have the honor to submit to you my eighteenth annual report, comprising the work and condition of the Cleveland Fire Department for the year ending December 31, 1898.

During the past year the Department has responded to 1,182 alarms, which is 82 more than last year. Of these 864 were box alarms, 318 were still alarms, 511 being working fires, which is 49 more than the previous year. Of this total, there were 38 calls for assistance and 13 false alarms, making 17 more calls and 1 less false alarm than in 1897.

The total loss by fire the past year was \$871,881.87, covered by an insurance of \$5,130,283. Owners' loss was \$356,452.47, with an insurance of \$2,392,352. The occupants' loss was \$515,449.40, with an insurance of \$2,737,931.

The department at present consists of 392 officers and men, 151 horses, and 119 pieces of apparatus which are divided into 26 engine companies, 9 hook-and-ladder companies, 3 chemical engines, 1 hose company, 1 water tower and 1 aerial Scott Uda ladder, Engine Company 15 (Clevelander) and Engine Company 21 (John H. Farley) being fire-boats. There are 3 extra engines, 1 hook-and-ladder and 2 hose wagons.

The department has on hand 41,600 feet of hose of various sizes.

I call attention here to my last year's recommendations; also Medical, Veterinary officers' and Superintendent of Machinery's annexed reports for particulars.

The Benefit Associations of the Fire Department are in good condition.

The Firemen's Life Insurance paid out \$7,570 death loss and \$24.15 current expenses.

The Relief Association paid out \$2,963 in sick claims, \$400 in death claims and other claims amounting to a total of \$3,667.75. There is a cash balance of \$5,026.55 in Society for Savings to its credit.

The Pension Fund has at present on its roll 34 old and disabled firemen, 31 widows and 33 children. In caring for these the board has expended \$27,896.93 during the past year.

Before closing I wish to thank all the officers and men for their zealous efforts shown in fighting the many fires of the past year, and for their willingness and ability which was shown at all times; also the Police Department, which has rendered valuable assistance at many fires.

Respectfully submitted,

JAMES W. DICKINSON,
Chief Cleveland Fire Department.

SERVICE IN 1898.

COMPANY.	Fires Attended.	Fires Worked on.	Hours Worked.	Miles Run.	Feet of Hose Used.	Veterinary Calls.	REMARKS.
Engine Co. No. 1.....	150	48	83½	212½	21,400	18	First section.
" " 1.....	64	18	55½	67	9,600	.....	Second section.
" " 2.....	153	45	66½	159	19,200	4	
Chemical A.....	214	39	22¾	241½	7,800	.....
Engine Co. No. 3.....	209	68	82	310½	25,550	4	
" " 4.....	111	39	67	164¾	18,700	3	
" " 5.....	94	34	50½	167½	12,400	6	
" " 6.....	132	60	89½	222¾	19,200	4	
" " 7.....	131	57	65	240¾	18,050	9	
" " 8.....	97	40	60¾	221	17,250	4	
" " 9.....	116	36	51½	236	13,260	7	
" " 10.....	72	32	35¾	157½	11,750	4	
" " 11.....	83	47	54½	138¾	12,600	2	
" " 12.....	111	34	42½	261½	12,900	5	
" " 13.....	56	28	32¾	127¾	9,250	2	
" " 14.....	196	48	74¾	267½	17,950	6	
" " 15.....	69	24	46½	83	14,150	.....	{ 2½ hours, breaking 15 miles ice (Cleveland).
" " 16.....	71	33	42½	113½	11,200	8	
" " 17.....	135	42	50½	332¾	16,200	16	
" " 18.....	114	57	66	295½	16,550	14	
" " 19.....	94	36	35½	214½	13,150	1	
" " 20.....	68	29	27½	142½	10,550	2	
" " 21.....	59	15	24	67¾	3,800	.....	{ 8¾ hours, breaking 48 miles ice (J. H. Farley).
" " 22.....	77	28	27½	181	7,300	1	
" " 23.....	42	20	19	89½	5,400	2	
" " 24.....	34	25	22¾	95½	6,550	5	
" " 25.....	109	43	48¾	266¾	11,700	6	
" " 26.....	24	5	19	55½	6,350	4	{ Only been in the service 8 months.
Hook & Ladder Co. 1..	184	110	123½	263½	2,450	10	
Water Tower	70	5	16	75½	.....	.....
Hook & Ladder Co. 2..	126	80	102¾	219¾	950	4	

SERVICE IN 1898—Concluded.

COMPANY.	Fires Attended.	Fires Worked on.	Hours Worked.	Miles Run.	Feet of Hose Used.	Veterinary Calls.	REMARKS.
Chemical B.....	136	35	35	237½	8,500	.....
Hook & Ladder Co. 3..	132	60	81½	301	200	3	
" " " 4..	111	74	78¾	259¾	550	9	
" " " 5..	79	45	43	168¾	.....	4	
Chemical D.....	80	24	21	154½	4,750	.....
Hook & Ladder Co. 6..	152	79	80¾	381½	150	24	
" " " 7..	239	123	122¾	392¾	.....	6	
" " " 8..	73	41	33	164	300	2	
" " " 9..	102	62	58¾	225¾	450	5	
Hose Co. No. 1	114	54	89¾	159½	18,450	1	
Totals .....	.....	.....	2,243¾	8,134¾	406,800	205	

Report of Superintendent of Machinery.

CLEVELAND, OHIO, December 31st, 1898.

HON. G. L. HECHLER,

Director of Fire Service.

SIR:—I respectfully submit herewith my annual report of machinery and apparatus of the Fire Department for the year ending December 31, 1898.

APPARATUS.

The apparatus of the department at the close of the year is in good and serviceable condition. Through your orders strict attention has been paid to this arm of the service, maintaining its standard of efficiency, repairs being made in order that the best amount of service should be rendered when called upon to do hard fire service.

Accidents to the machinery were few, compared with other years and by the amount of work done.

There have been added to the machinery two new buggies, one for the Chief and one for the Assistant Chief, embodying very necessary improvements, such as rubber tires and the best standard springs and axles.

There has also been built a new exercise wagon for Engine Company No. 26, which was a necessary addition to that company, and the remodeling of the running gear of an old hose-carriage to a new exercising wagon for the veterinary stable. Three new heaters were purchased for Engine Companies Nos. 2, 3 and 26. Engine No. 1 met with an accident at the fire in Music Hall, January 15th, whereby it was rendered unfit for service by overheating of tubes of the top

section of the water tube heater, which caused it to be sent to shop for repairs. Engine No. 1, Second Section, was withdrawn from fire at Box No. 4 in Hoyt Block, corner St Clair and Bank streets, February 12th. The engine was in charge of John J. Dienst, assistant engineer. There was nothing the matter with the engine, which was soon put in service again, doing very excellent work.

There were three engines painted, Nos. 1, 2 and 3, hose-wagons Nos. 20 and 23 were also overhauled and painted and put in good working order, No. 20 having a new set of Warner patent wheels. There were also painted three exercise wagons.

Fire Boat No. 15 was put in the ship owner's dry-dock and was painted all through the hull and bottom; so was No. 21.

Two new header connections, with fire connections on each for coupling 3½-inch hose to. They are of an improved pattern from the original and are of great strength and reliability. One header was put on Seneca street hill pipe; the other was placed on the Superior street hill pipe.

Some slight repairs were made to the boilers of the two fire-boats.

The casualties to apparatus the past year were few when compared with the number of miles run and the hours worked at fires.

HEATERS.

There are 25 heaters attached to engines; 2 used for heating water for house use only, and 10 steam house heaters, which are all in good order.

APPARATUS IN SERVICE.

The apparatus in the following list are all in good working order and in first-class condition for service, consisting of 16 double piston engines, 2 single piston engines, 7 rotary engines, 2 fire-boats with powerful vertical duplex pumps, 26 hose-wagons, 9 hook-and-ladder trucks, three of which are of the aerial turntable style, one Scott Uda aerial ladder of the rope windlass hoist style. There are 1 Champion water

tower, 10 officers' buggies, 3 two-wheeled chemical engines and equipments, 2 line repair wagons, 1 pole cart, in use of telegraph department; 2 coal wagons, always loaded with coal for immediate use; 2 general delivery wagons, 25 exercise wagons.

EXTRA PARTS.

Extra parts of apparatus — wheels, poles, whiffletrees, eveners, grates, suction, axles and several smaller parts are principally stored at Station No. 18.

RESERVE APPARATUS.

The following is the apparatus in reserve: 1 steam fire engine in poor condition, too old and heavy; 1 hose-wagon, in good order; 1 four-wheeled hose-carriage, in fair order; 1 hook-and-ladder truck, in good condition; 2 chiefs' buggies, fair; 2 chiefs' buggies, in bad order.

IN BAD ORDER.

One old fire engine, 1 two-wheeled gig, 1 old fire wagon, 1 old line repair wagon, 2 chiefs' buggies; all of which should be condemned as worthless and sold.

The two new engines contracted for with Thos. Manning, Jr. & Co. are in course of construction, and one of them will soon be ready for delivery.

I would recommend that a fourth size double piston engine be purchased during the ensuing year, as in my opinion it is very necessary to have one of that size and weight to be used as an extra, in order to have better service in the outlying districts than can now be obtained with the only extra engine in the department on account of its great weight.

The machinery has done good work in the past year. The fire-boats have proved of great value to the department, and I hope, for the better protection of property, you will carry out your proposed intention of extending the pipe line in the streets, where it will give the greatest protection. The improvement cannot be made too soon.

Another recommendation I would make is that a tank be erected convenient to the two fire-boats containing good, pure,

clean water for boilers, thereby saving the boilers from the destructive effects of the heavy incrustations with which they are now coated, and which will eventually ruin them if some such remedy is not soon applied.

The cost of such a tank need not be heavy, and the connection to the boat would be a simple matter. This is something I would most respectfully call your attention to as being worthy of notice, and hope it will receive your consideration.

I sincerely hope that the Fire Department of Cleveland will maintain the good name it has earned for itself by its good work and the able management of it by yourself as well as by the efficient officers and the rank and file.

I return my sincere thanks to the Director of Fire Service for past kindness.

To the worthy Chief I tender my kind regards for the aid given me and the uniform kindness extended during the last year.

The annexed table gives a full description of steam fire engines of all classes, with sizes of steam cylinders and pumps.

Respectfully submitted,

C. D. MURPHY,

Sup't of Machinery, C. F. D.

Respectfully forwarded to J. W. Dickinson, Chief.

Respectfully forwarded to Director G. L. Hechler.

JAMES W. DICKINSON,
Chief.

DESCRIPTION OF STEAM FIRE ENGINES.

Engine Co. Using.	Manufacturer's Name:	Style of—			Size in Inches.			When Placed in Service.	Size.
		Frame.	Boiler.	Engine.	Steam Cylinder.	Stroke of Piston.	Pump.		
Engine Co. No. 1...	Thos. Manning.....	Crane Necked.	Water Tube	Double Piston.....	8½	8	4½	1885	No. 2
" " 1...	Silaby Manufacturing Co.....	Straight	Drop Tube.....	Rotary .....	.....	.....	.....	1885	" 1 Extra
" " 2...	Clapp & Jones Manufacturing Co.....	Crane Necked.	" "	Double Piston.....	9	8	5½	1885	" 1
" " 3...	Clapp & Jones Manufacturing Co.....	" "	" "	" "	8	8	5	1885	" 1
" " 4...	Thos. Manning.....	" "	Water Tube	" "	8½	8	5	1885	" 2
" " 5...	Amoskeag Manufacturing Co.....	" "	Submerged Tube ..	" "	6½	8	4½	1875	" 2
" " 6...	Silaby Manufacturing Co.....	" "	Drop Tube.....	Rotary ..	.....	.....	.....	1885	" 3
" " 7...	Silaby Manufacturing Co.....	" " .....	" " .....	" " .....	.....	.....	.....	1884	" 3
" " 8...	Thos. Manning.....	" "	Submerged Tube ..	Double Piston.....	6½	8	4½	1884	" 2
" " 9...	Manchester Locomotive Works.....	" "	" "	" "	6½	8	4½	1879	" 2
" " 10...	Thos. Manning.....	" "	" "	" "	6½	8	4	1884	" 3
" " 11...	La France Fire Engine Co.....	" "	Nest Tube	" "	7½	8	4½	1882	" 3
" " 12...	Thos. Manning.....	" "	Water "	" "	7½	8	4½	1885	" 3
" " 13...	Thos. Manning.....	" "	Submerged Tube ..	" "	6½	8	4½	1884	" 3
" " 14...	Silaby Manufacturing Co.....	" "	Drop Tube	Rotary ..	.....	.....	.....	1885	" 2
" " 15...	Thos. Manning.....	Upright.....	Water Tube	Double Piston.....	15	12	9½	1884	F.B.Cleveland

DESCRIPTION OF STEAM FIRE ENGINES.—Concluded.

Engine Co. Using.	Manufacturer's Name.	Style of—			Size in Inches.			When Placed in Service.	Size.
		Frame.	Boiler.	Engine.	Steam Cylinders.	Stroke of Piston.	Pump.		
Engine Co. No. 16...	Thos. Manning.....	Crane Necked.	Submerged Tube ..	Double Piston.....	6%	8	4½	1894	No. 3
" " 17...	Silaby Manufacturing Co.	" "	Drop Tube	Rotary				1891	" 3
" " 18...	Thos. Manning.....	" "	Water Tube	Double Piston.....	8	8	5	1894	" 3
" " 19...	Thos. Manning.....	" "	Submerged Tube ..	" "	6%	8	4½	1894	" 3
" " 20...	Ahrens Manufacturing Co.	Straight	Coil	Single Piston.....	9	8	5½	1878	" 3
" " 21...	Thos. Manning.....	Upright.....	Scotch	Double Piston	16	10	8	1894	F.B.J. H. Farley
" " 22...	Ahrens Manufacturing Co.	Straight	Coil.....	Single Piston.....	9	8	5	1877	No. 3
" " 23...	Silaby Manufacturing Co.	Crane Necked.	Drop Tube.....	Rotary				1877	" 3
" " 24...	Thos. Manning.....	" "	Water Tube	Double Piston.....	6%	7	4	1897	" 4
" " 25...	Thos. Manning.....	" "	Drop Tube.....	" "	6%	8	4	1895	" 3
" " 26...	Silaby Manufacturing Co.	Straight	" "	Rotary				1890	" 1
Reserve Co.	Silaby Manufacturing Co. ....	" .....	.....	" .....				1873	" 1

Report of the Chief Operator of the Cleveland Fire Alarm Telegraph.

FIRE ALARM OFFICE, January 1st, 1899.

HON. G. L. HECHLER,

Director of Fire Service.

SIR:—I have the honor to submit to you my annual report for the year ending December 31, 1898.

During the past year the Fire Alarm System has worked very well, excepting the Allen boxes. There has been some time lost on several occasions in receiving alarms from Allen boxes. These boxes are old, unreliable, and are recommended to be condemned and replaced with sectar weight boxes.

During the past year $6\frac{1}{2}$ miles of copper wire was strung in replacing old iron wire. Underground cable was also laid on Michigan and Seneca streets for fire-boat signal line.

In the renewing and extension of circuits, underground work and other changes and improvements, I shall submit, later on, a detailed statement, with estimated cost thereof.

I wish to call your attention to former recommendations with regard to changing the battery system; that is, replacing the present gravity with storage battery. By making this change the Fire Alarm System would be made more efficient and more economical.

For other improvements to make the Fire Alarm System modern, I respectfully refer to my communication dated November 30, 1897.

In conclusion, I beg leave to extend my sincere thanks to the Honorable Director of Fire Service, and to the Chief, for kindness and assistance rendered.

Respectfully submitted,

JOSEPH ROTHGERY,

Chief Operator.

See annexed tables for further information.

Respectfully forwarded to Chief J. W. Dickinson.

Respectfully forwarded to Director G. L. Hechler.

JAMES W. DICKINSON, *Chief.*

SUMMARY 1898.

Troubles on lines removed.....	297
Boxes examined.....	3,650
Boxes cleaned and repaired.....	30
Boxes added to system.....	240
Keys issued to citizens.....	240
Miles of copper wire strung.....	6%
Miles of old iron wire taken down.....	5
Number of poles set.....	21
Number of poles taken down.....	24
Feet of underground cable laid.....	950
Miles of copper wire in use.....	281½
Miles of iron wire in use.....	21%
Feet of lead covered cable underground...	26,969
Feet of copper wire underground.....	420,653
Miles traveled with wagons.....	1,664

ESTIMATED VALUE OF PROPERTY IN CHARGE OF THE
TELEGRAPH DEPARTMENT OF THE C. F. D.

Office furniture, switchboard and instruments.....	\$ 2,500
Instruments in engine houses.....	2,700
Alarm boxes.....	17,500
Lines and fixtures.....	14,000
Underground wires	3,300
Horses and wagons.....	600
Batteries and supplies.....	1,500
Telegraph poles.....	5,000
Total.....	\$ 49,100

ALARM BOXES IN USE.

Gamewell spring.....	52
Gamewell sector weight.....	90
U. S. sector weight.....	82
Interstate.....	41
Allen.....	84
Utica.....	2
Pearce & Jones.....	1
Richmond.....	1
Total.....	353

BOX ALARMS.

1896.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Sunday	12	5	9	8	6	13	16	8	6	6	11	9	109
Monday	10	6	3	7	9	13	24	6	5	15	10	7	115
Tuesday.....	5	8	7	10	13	11	10	15	14	10	13	7	123
Wednesday.....	9	5	17	13	14	12	8	13	9	8	12	18	138
Thursday.....	12	8	10	14	5	11	8	8	10	6	12	19	123
Friday.....	6	6	11	15	10	4	18	9	11	8	11	9	118
Saturday.....	9	8	5	11	7	7	22	10	14	10	17	18	138
Total	63	46	62	78	64	71	106	69	69	63	86	87	864

STILL ALARMS.

1898.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Sunday.....	2	1	0	2	2	2	7	4	3	3	2	6	34
Monday.....	3	1	1	3	4	1	7	5	2	7	5	6	45
Tuesday.....	4	4	6	8	0	5	5	6	5	3	6	5	57
Wednesday.....	2	2	2	3	3	4	4	2	5	2	4	4	37
Thursday.....	4	4	2	5	1	7	7	3	4	3	3	5	43
Friday.....	4	1	5	2	3	3	5	6	4	1	0	4	33
Saturday.....	5	4	1	2	4	8	11	4	5	5	2	8	59
Total.....	24	17	17	25	17	30	46	30	28	24	22	33	318

ALARMS.

1898.	Box Alarms.			Still Alarms.			Grand Total.	Working Fires.	Calls for Assistance.	False Alarms.
	A. M.	P. M.	Total	A. M.	P. M.	Total				
January.....	23	40	63	10	14	24	87	35	4	2
February.....	24	22	46	2	15	17	63	25	3	0
March.....	22	40	62	5	12	17	79	30	1	1
April.....	30	48	78	12	13	25	103	40	1	2
May.....	28	36	64	6	11	17	81	45	2	2
June.....	29	42	71	13	17	30	101	36	2	1
July.....	39	67	106	15	31	46	151	72	3	2
August.....	36	33	69	12	18	30	99	42	2	0
September.....	31	38	69	11	17	28	97	43	5	2
October.....	27	36	63	6	18	24	87	42	2	0
November.....	29	57	86	6	16	22	108	40	4	0
December.....	35	52	87	13	25	38	125	56	4	1
Total.....	353	511	864	111	206	318	1,182	511	38	18

Alarms turned in by

Citizen keys.....	436
Box keys.....	28
Firemen keys.....	10
Policemen keys.....	69
Police stations.....	5
Engine houses.....	61
Auxiliary system.....	3
Automatic system.....	1
American District.....	9
Telephone.....	214

TABLE SHOWING NUMBER OF ALARMS FROM EACH BOX.

Box.	Alarms.	Box.	Alarms.	Box.	Alarms.	Box.	Alarms.	Box.	Alarms.	Box.	Alarms.	Box.	Alarms.	Box.	Alarms.
2	1	47	2	95	3	162	3	226	3	318	5	375	3	436	14
3	3	48	2	96	4	163	3	227	1	319	2	376	6	437	5
4	4	49	1	97	2	164	1	228	2	321	1	378	3	441	2
5	3	51	1	122	5	165	4	229	1	322	1	381	2	443	1
6	1	52	5	123	1	167	1	231	4	323	4	383	1	461	1
9	2	53	2	125	3	168	1	232	2	324	5	386	5	463	1
12	1	54	2	126	3	171	1	233	1	325	3	387	1	491	2
13	4	56	1	127	7	173	1	234	4	327	6	391	3	494	1
14	3	57	2	128	2	174	1	235	1	331	3	392	1	495	4
15	2	58	3	129	2	175	4	236	3	332	1	393	1	513	2
16	2	59	4	131	1	177	1	237	6	335	1	394	7	515	1
17	5	61	1	132	7	181	1	241	2	336	2	396	1	525	1
18	2	63	1	135	2	183	6	242	2	341	3	411	2	541	1
19	4	64	1	136	2	187	2	243	1	342	8	412	7	542	3
21	9	67	1	137	2	188	1	245	1	343	3	414	5	545	2
23	3	68	7	138	1	189	4	246	5	344	1	415	3	554	3
24	7	69	4	139	1	191	2	248	3	346	4	416	1	562	1
25	2	71	2	142	4	193	4	251	3	351	1	417	4	921	1
26	2	72	2	144	1	195	2	252	4	352	1	419	2	922	1
27	3	73	11	145	4	196	1	255	6	354	4	421	4	923	1
28	6	74	3	146	3	198	2	256	2	355	2	422	2	925	4
29	3	79	21	148	2	199	3	257	2	357	1	423	9	931	1
32	5	81	3	149	3	212	1	259	2	358	3	424	3	932	5
34	19	83	2	151	2	214	1	261	5	361	4	425	3	971	1
36	2	84	6	152	1	215	3	262	1	362	2	426	1	.....	.....
37	5	85	4	153	1	216	5	263	2	364	4	427	12	.....	.....
38	8	87	4	154	5	217	3	264	1	365	7	429	3	.....	.....
39	4	89	2	155	2	218	3	265	1	367	1	432	3	.....	.....
41	1	91	6	156	2	219	2	267	5	368	2	433	3	.....	.....
43	2	93	1	157	3	221	2	269	1	371	1	434	2	.....	.....
45	1	94	3	161	1	225	1	315	2	372	2	435	3	.....	.....

Report of the Medical Officer.

CLEVELAND, O., March 5th, 1899.

HON. G. L. HECHLER,

Director of Fire Service.

DEAR SIR:—I have the honor to submit to you a report of the medical and surgical services for the year ending December 31, 1898.

In my annual report of 1897 I called attention to the need of medical and surgical dressings to be placed in each fire station, whereby injuries may receive prompt and proper surgical care. Cleanliness should be observed in every detail. To accomplish this each station should be provided with a bowl. This can all be supplied with little expense.

Appended you will find tables showing medical and surgical services.

In conclusion, I desire to return thanks for the kind treatment accorded me.

D. L. TRAVIS, M. D.,

Medical Officer.

Respectfully forwarded through the Chief, James W. Dickinson.

Respectfully forwarded to Director G. L. Hechler.

JAMES W. DICKINSON,

Chief.

TABLE SHOWING DISEASES, INJURIES AND MEDICAL SERVICE,
DURING THE YEAR 1898.

Diseases.				Injuries.				Aggregate.				Medical Services.	
No. of Cases	Time Lost.			No. of Cases	Time Lost.			No. of Cases	Time Lost.			No. of Visits	No. of Con- sultations.
	Days.	Hours.	Min.		Days.	Hours.	Min.		Days.	Hours.	Min.		
154	1,367	5	52	43	901	12	19	197	2,288	18	11	715	199

Died from Disease, 3.

Died from Injury, 1.

TABLE OF DISEASES AND INJURIES IN THE ORDER
OF THEIR FREQUENCY DURING THE YEAR 1898.

DISEASES.	
La Grippe.....	35
Bronchitis.....	8
Acute Indigestion.....	7
Influenza.....	6
Neuralgia.....	6
Fever.....	5
Middle Ear Disease.....	5
Pharyngitis.....	5
Diarrhoea.....	5
Hemorrhoids.....	4
Tonsillitis.....	4
Rheumatism.....	4
Laryngitis.....	4
Abscess.....	3
Indigestion.....	3
Appendicitis.....	3
Pneumonia.....	3
Lumbago.....	3
Adenitis.....	3
Fissure of Anus.....	3
Congestion of Liver.....	2
Colic.....	2
Chronic Gastritis.....	2
Typhoid Fever.....	2
Ulceration of Cornea.....	2
Congestion of Stomach.....	1
Inflammation of Bowels.....	1
Dysentery.....	1
Tumor.....	1
Measles.....	1
Intermittent Fever.....	1
Spasmodic Colic.....	1
Alveolar Abscess.....	1
Paralysis.....	1
Jaundice.....	1
Sciatica.....	1
Orchitis.....	1
Cirrhosis of Liver.....	1
Obstruction of Bowels.....	1
Disease of Kidney.....	1
Ingrowing Nail.....	1
Salivation.....	1
Ulcer on Leg.....	1
Gastro Intestinal Disease.....	1
Acute Rheumatism.....	1
Mental Decay.....	1
Vesicular Eczema.....	1
Gastro Intestinal Catarrh.....	1
Typhoid Pneumonia.....	1
Gastric Catarrh.....	1

TABLE OF DISEASES AND INJURIES IN THE ORDER OF
THEIR FREQUENCY DURING THE YEAR 1898.

Concluded.

INJURIES.

Contusion.....	11	Contusion of Eye.....	1
Lacerated Wound	4	Rupture of Hamstring.....	1
Laceration of Ligaments.....	3	Incised Wound.....	1
Contusion of Ankle.....	3	Laceration of Ligaments in Ankle.....	1
Contusion of Toe.....	3	Injury to Back	1
Punctured Wound.....	3	Contusion of Foot.....	1
Burns.....	2	Infectious Wound.....	1
Fracture.....	2	Fracture and Dislocation.....	1
Dislocation	1	Contusion of Elbow.....	1
Sprained Ankle.....	1	Ruptured Ligaments in Ankle with Con- tusion.....	1

Report of the Storekeeper.

CLEVELAND, O., April 27, 1899.

HON. G. L. HECHLER,
Director of Fire Service.

SIR:—I respectfully make the following report of hose for the year 1898:

Amount of hose in the department Jan. 1, 1898 . .	42,550 ft.
Amount of hose purchased (Manhattan) Nov., '98 . .	1,000 ft.
Amount of hose burst	5,450 ft.
Amount of hose repaired	3,550 ft.
Amount of hose condemned	1,950 ft.
Amount of hose in department Jan. 1, 1899	41,600 ft.

Yours respectfully,

P. H. AUXER,
Storekeeper.

Respectfully forwarded through Chief James W. Dickinson.

Report of the Inspector of Boilers.

JANUARY 1, 1899.

HON. G. L. HECHLER,

Director of Fire Service.

DEAR SIR:—I herewith respectfully submit my annual report for the year beginning January 1, 1898, and ending December 31, 1898:

Number of boilers inspected	222
Number of certificates issued	222
Number of certificates issued to city boilers, no fee	84
Number of repairs ordered	50
Number of certificates not paid	29
Paid to A. J. Spencer, Secretary, during the year	\$545

No accidents from steam boilers under the jurisdiction of this department have occurred during the time I have been in office.

In conclusion, I desire to return to you my sincere thanks for the kindness and many courtesies received at your hands.

Very respectfully,

THOMAS CALDWELL,
Boiler Inspector.

Report of the Examiner of Engineers.

JANUARY 1, 1899.

HON. G. L. HECHLER,

Director of Fire Service.

SIR:—I herewith most respectfully submit my fourth annual report of the business done in this office during the year ending December 31, 1898:

1898.	Licenses Granted.		Applicants Rejected.	Licenses Re-issued.	
	Engineers.	F. & W. T.		Engineers.	F. & W. T.
January	28	5	9	117	43
February	23	5	9	105	37
March.....	14	14	8	114	35
April	15	7	6	117	23
May	8	9	6	136	48
June	15	4	1	87	27
July.....	15	5	4	78	25
August	18	12	6	80	19
September	4	12	2	76	31
October.....	17	13	6	116	42
November	12	7	7	123	49
December	20	10	9	115	32
Total.....	189	103	70	1,264	411

Applicants examined	362
Engineers in good standing ..	1,453
Firemen and water tenders in good standing.....	516
Engineers not re-issuing	432
Firemen and water tenders not re-issuing.....	337
Total.....	2,738

In conclusion, I wish to thank you for your kindness and friendly treatment.

Yours very respectfully,

F. G. KAUFHOLZ,

Examiner of Engineers.

Report of Veterinary.

HON. G. L. HECHLER,
Director of Fire Service.

DEAR SIR:—I have the honor to submit herewith my report for the year ending December 31, 1898.

The total number of cases treated in the Veterinary Hospital during the year of 1898 was 115; the total number of visits made by the Veterinary Surgeon was 810.

Only one death has occurred. Horse No. 292 dropped dead while exercising; cause, heart failure.

The horses in the department are in fine condition to perform the services required of them.

In closing, permit me to thank you and the other officers and members of the Fire Department for kind and courteous treatment.

Yours respectfully,

N. H. DOWNS,
Dep't Veterinary.

Respectfully forwarded through Chief Dickinson.

Respectfully forwarded to Director G. L. Hechler.

J. W. DICKINSON,
Chief.

THE FOLLOWING LIST GIVES THE DISEASES AND THE
NUMBER OF HORSES AFFECTED.

UNDER TREATMENT FOR	CASES.
Lameness.....	116
Calks.....	12
Corns.....	7
Mud Fever.....	12
Nail Prick.....	1
Quarter Cracks.....	3
Laminitis.....	1
Colic.....	20
Indigestion.....	11
Impaction of Bowels.....	4
Inflammation of Bowels.....	1
Erythema.....	8
Lymphangitis.....	2
Strangles.....	23
Influenza.....	12
Pneumonia.....	3
Laryngitis.....	4
Purpura Hemorrhagica.....	5
Vertigo.....	2
Tumors.....	3
Rheumatism.....	2
Azouria.....	2
Abcesses.....	2
Wounds Incised.....	8
Wounds Lacerated.....	13
Wounds Punctured.....	1
Burns.....	2

Report of the Inspector of Buildings.

DEPARTMENT OF FIRE,
OFFICE OF INSPECTOR OF BUILDINGS. }
January 1, 1899.

HON. G. L. HECHLER,

Director of Fire Service.

DEAR SIR:—I have the honor to herewith submit the eleventh annual report of the business transacted by this department for the year ending December 31, 1898.

The estimated cost of new structures built during the past year is \$3,107,980, and for additions, alterations and repairs, \$505,857, or a total of \$3,613,837, which is \$206,034 more than for the year of 1897.

The fees charged for permits in 1898 amounted to \$6,317.15, and the expenditures for salaries, stationery, printing, etc., \$6,324.17.

The fees charged for permits in 1897 amounted to \$5,854.30, and the expenditures for salaries, stationery, printing, etc., \$6,322.50. No fees were charged for public buildings built by the city, but the cost of the same is included in the total for new structures.

Three hundred and eighty-two (382) permits have been issued for steam and hot air heaters, all of which have been inspected.

Fifty-three (53) permits have been issued to move buildings.

Notices have been served on owners of 79 buildings to place fire escapes on same. The plans and specifications for fire escapes are the same as last year.

Numerous examinations of buildings reported unsafe and walls of those destroyed by fire have been made, and when

found to be unsafe the owners or agents have been notified to have them made safe or taken down.

The force employed in this department consists of the Inspector of Buildings, Assistant Inspector, and two Deputy Inspectors.

The Assistant Inspector and one Deputy are employed all the time inspecting buildings in the course of construction; all heating apparatus, unsafe buildings, defective chimneys, and locating and ordering on fire escapes.

The territory to be covered by the number employed in this office is manifestly too large—thirty-two square miles.

I would respectfully suggest that at least two additional inspectors be provided for, and would add that from the present outlook in the building trades the fees will be large enough to warrant the payment of the salaries therefrom, and keep this office self-sustaining or nearly so, as it has been in the past.

In closing, permit me to thank the officers and members of the Police and Fire Departments for their help, and the Assistant Inspectors for the faithful discharge of their duties.

Yours very respectfully,

JOHN E. THOMAS,
Inspector of Buildings.

THE ACCOMPANYING TABLES GIVE IN DETAIL THE
BUSINESS DONE DURING THE YEAR 1898.

The following is a condensed summary thereof :

Number of brick and stone structures.....	130
Number of wood and frame structures.....	1,597
Number of additions, alterations, etc.....	1,191
Number of buildings moved.....	53
Number of heating apparatus.....	362
Number of fire escapes ordered	79
Total amount of fees charged.....	\$ 6,317 15

STATEMENT

Classifying the Buildings for which Permits were issued during the year ending December 31, 1898.

1898	Dwellings.		Barns.		Stores.*		Shops and Mills.		Apartment Houses.		Miscellaneous.		Totals.	
	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.	No.	Value.
New Structures.....	1,160	\$1,639,080	198	\$49,895	93	\$591,325	69	\$257,950	28	\$345,700	179	\$224,030	1,721	\$3,107,960
Additions to old Structures...	751	170,895	42	5,295	201	105,700	87	121,680	7	60,200	94	42,057	1,191	505,857
Totals.....	1,911	\$1,809,975	240	\$55,190	294	\$697,025	156	\$379,630	35	\$405,900	273	\$266,117	2,912	\$3,613,837

* Includes stores, stores and apartments, stores and power, stores and offices.

STATEMENT

Showing the number of Permits issued, Cost of Structures, etc., for each year from the organization of the office of Inspector.

Year.	Number of Permits Issued.			Total Estimated Cost.	Fees.
	New Structures.		Additions, etc.		
	Brick.	Frame.			
*1888.....	76	1,101	441	\$3,031,988 00	\$ 4,884 59
1889.....	115	2,486	1,302	4,401,854 00	9,664 75
1890.....	117	2,729	1,444	5,107,107 00	9,436 90
1891.....	144	2,757	1,561	5,600,983 00	8,415 63
1892.....	116	2,720	1,644	5,236,549 00	8,119 55
1893.....	101	1,940	1,347	3,706,087 00	5,816 80
1894.....	115	1,472	1,035	4,171,690 00	5,565 51
1895.....	131	1,768	1,152	4,146,242 00	5,261 62
1896.....	121	1,578	1,200	3,145,601 00	4,967 80
1897.....	142	1,693	1,176	3,407,803 00	5,316 30
1898.....	130	1,597	1,191	3,613,837 00	6,317 15
Total.....	1,308	21,841	13,493	\$45,569,741 00	\$73,746 60

* For seven months from June 1, 1888, the date of organization of office.

RECAPITULATION BY WARDS OF PERMITS FOR BUILD- ING FOR 1898.

Wards.	New Buildings, Brick and Stone.		New Buildings, Frame and Wood.		Additions, Altera- tions and Repairs.		Total Permits for Building and Fees.	
	No.	Estimated Cost.	No.	Estimated Cost.	No.	Estimated Cost.	No.	Fees.
1.....	8	\$ 148,750 00	2	\$ 1,350 00	27	\$ 11,645 00	37	\$ 285 00
2.....	9	389,300 00	1	750 00	39	64,035 00	49	619 15
3.....	6	37,140 00	2	7,650 00	28	31,365 00	36	166 75
4.....	2	22,500 00			20	26,990 00	22	71 10
5.....	3	11,900 00	2	1,600 00	20	8,640 00	25	39 55
6.....	6	86,000 00	20	46,075 00	14	3,325 00	40	119 60
7.....	4	29,000 00	9	5,125 00	18	3,615 00	31	65 80
8.....			7	4,585 00	10	910 00	17	17 10
9.....	6	47,500 00	32	22,325 00	38	33,250 00	76	244 65
10.....	4	40,900 00	3	1,300 00	21	24,340 00	28	91 60
11.....	2	13,200 00	4	4,200 00	1	400 00	7	29 65
12.....			4	2,530 00	11	4,605 00	15	10 65
13.....	1	8,000 00	6	8,975 00	16	10,740 00	23	30 30
14.....	1	10,000 00	6	4,195 00	9	2 815 00	16	35 50
15.....	3	31,700 00	15	14,755 00	18	4,200 00	36	70 95
16.....	4	4,675 00	16	5,165 00	36	11,445 00	56	46 90
17.....	3	28,500 00	25	15,425 00	26	4,400 00	54	69 05
18.....	8	78,750 00	136	165,310 00	52	17,305 00	196	355 00
19.....	12	153,100 00	306	451,720 00	48	13,250 00	366	725 10
20.....	7	73,500 00	73	127,815 00	39	49,965 00	119	484 35
21.....	6	37,700 00	97	151,115 00	55	17,045 00	158	271 50
22.....	3	13,500 00	37	22,885 00	32	10,800 00	72	88 60
23.....	5	52,500 00	51	37,480 00	36	5,265 00	92	184 55
24.....	3	4,460 00	42	16,535 00	48	12,450 00	98	77 65
25.....	4	37,000 00	106	68,015 00	64	18,900 00	174	280 85
26.....			37	30,025 00	17	3,240 00	54	65 10
27.....			89	54,285 00	58	12,082 00	147	156 45
28.....	1	8,000 00	5	17,445 00	14	8,665 00	20	89 65
29.....	2	35,000 00	2	1,825 00	9	1,180 00	13	42 10
30.....			8	3,285 00	12	4,355 00	20	17 80

RECAPITULATION BY WARDS OF PERMITS FOR BUILD-
ING for 1898.—Concluded.

Wards.	New Buildings, Brick and Stone.		New Buildings, Frame and Wood.		Additions, Altera- tions and Repairs.		Total Permits for Building and Fees.	
	No.	Estimated Cost.	No.	Estimated Cost.	No.	Estimated Cost.	No.	Fees.
31.....	.....	.....	14	\$ 10,270 00	15	\$ 2,095 00	29	\$ 30 85
32.....	3	11,275 00	14	15,190 00	21	4,295 00	38	45 15
33.....	1	2,000 00	10	7,790 00	24	15,245 00	35	42 30
34.....	1	250 00	10	3,890 00	13	2,760 00	24	15 60
35.....	2	1,700 00	11	7,985 00	15	3,565 00	28	23 95
36.....	1	3,000 00	32	14,945 00	32	4,425 00	65	60 75
37.....	2	3,400 00	17	12,590 00	30	4,635 00	49	48 65
38.....	2	20,300 00	28	12,790 00	27	8,775 00	57	61 15
39.....	1	4,000 00	34	12,140 00	40	7,865 00	75	60 50
40.....	1	32,000 00	79	44,320 00	65	13,970 00	145	131 85
41.....	2	3,500 00	109	109,950 00	35	12,485 00	146	204 45
42.....	1	4,000 00	96	75,395 00	38	4,490 00	135	211 95
Totals..	130	\$ 1,488,000 00	1,597	\$ 1,619,980 00	1,191	\$ 505,857 00	2,918	\$ 5,829 15

SUMMARY BY MONTHS.
TOTAL PERMITS FOR THE YEAR 1898 BY MONTHS.

DATE.	Heating.	Mvins.	New Buildings.				Repairs, Alterations, Additions.		Total Buildings.		Total Permits and Fees.	
			Brick and Stone.		Frame and Wood.		Brick, Stone, Frame, Wood.		All Kinds.		All Purposes.	
			No.	Estimated Cost.	No.	Estimated Cost.	No.	Estimated Cost.	No.	Estimated Cost.	No.	Fees.
January	33	.....	3	\$ 9,100	93	\$ 84,565	59	\$ 16,140	155	\$ 109,805	188	\$ 225 20
February	16	4	6	21,100	66	53,955	57	14,095	129	94,150	149	205 20
March	37	5	19	153,015	180	160,485	167	67,275	366	380,775	408	630 25
April	9	10	12	121,550	146	149,150	164	56,877	322	327,577	341	591 40
May	52	5	9	322,300	131	121,130	133	41,195	273	484,625	330	722 95
June	19	5	17	122,650	125	120,875	104	25,320	246	269,845	270	483 20
July	49	4	12	266,275	169	189,380	97	102,495	278	558,700	331	870 10
August	26	4	11	112,060	166	168,255	108	30,235	285	310,550	315	517 15
September	32	6	7	38,425	147	140,885	99	41,255	253	220,565	291	436 20
October	18	3	11	174,625	165	165,585	89	18,500	265	358,720	286	560 20
November	55	2	12	90,700	124	161,150	79	80,435	215	332,285	272	712 25
December	36	5	11	56,200	85	99,005	35	11,085	131	166,240	172	353 05
Total	382	53	130	\$1,488,000	1,597	\$1,519,480	1,191	\$ 505,857	2,918	\$ 3,613,837	3,353	\$ 6,317 15

Report of the City Electrician.

JANUARY 1ST, 1899.

HON. G. L. HECHLER,

Director of Fire Service.

DEAR SIR:—The following report for the year ending December 31, 1898, is very respectfully submitted:

Number of permits issued	1,348
Number of inspections made	1,085
Number of potential tests on street rail- way rails and water pipes	3,316
Number of poles removed from the streets	130
Feet of aerial wire removed	296,806
Feet of subway built	131,313
Feet of ducts in subway	1,419,294
Feet of cable placed underground	72,748
Feet of conductors placed underground	6,885,827

The average watts furnished to street lights above that specified in the contract was $9\frac{21}{100}$ per cent.

The total miles of wire placed underground to date is $13,618\frac{84}{100}$.

Very respectfully,

GEO. M. HOAG,
City Electrician.

Report of Fire Wardens.

HON. G. L. HECHLER,
Director of Fire Service.

DEAR SIR:—The following is our report for the year ending December 31, 1898:

FIRES INVESTIGATED.

Cause, Incendiary	67
" Unknown.....	43
" Carelessness with matches..	29
" Defective chimneys	53
" Spontaneous combustion.....	4
" Defective hot air pipe.....	6
" Mysterious.....	16
" Carelessness with rags.....	2
" Carelessness with hot pans.....	1
" Electric flat iron.....	1
" Hot ashes.....	6
" Carelessness with lamp.....	2
" Carelessness with gasoline.....	1
" Frame smoke house.....	2
" Woodwork too near stove.....	5
" Steam pipe not properly protected.....	2
" Carelessness with fire works.....	2
" Fire dropping out of cupola.....	1
" Kettle of paint boiling over.....	1
" Hot box	2
" Tramps	2
" Defective grate	4

Cause, Defective gas grate.....	1
" Defective gasoline stove.....	3
" Carelessness with grease.....	1
" Defective bake oven.....	2
" Carelessness with rubbish.....	2
" Rats, or mice, with matches.....	1
" Gasoline torch.....	2
" Coal oil torch.....	2
" Sparks.....	2
" Explosion of chemicals.....	1
" Carelessness with hot coals.....	2
" False alarms.....	1
" Carelessness with furnace	2
" Carelessness with cigar.....	1
" Carelessness with stove in barn.	1
" Carelessness with hot iron.....	1
" Woodwork too near boiler.....	2
" Swinging gas bracket.....	4
" Gas engine.....	1
" Gas explosion	1
" Soot in chimney.....	2
" Lamp explosions.....	7
" Stove in street car.....	1
" Defective foundation under knealing furnace.....	1
<hr/>	
Buildings inspected.....	806
Buildings inspected, ordered cleaned up, and repaired.....	212
Fire escapes recommended.....	30
Fire escapes inspected.....	1
Complaints investigated	105
Defective chimneys ordered made safe.....	53
Fire-proof ash vaults ordered.....	2
Number of days attending court.....	22
Number of days looking up evidence on incendiary fires.....	33
Number of loads of hay bought.....	153

During the holiday season we paid special attention to the down-town business district, inspecting windows, basements, keeping waste paper and other rubbish cleaned up, looking after the trimming of show windows, etc. Also visited all the theaters during the afternoon and evening performances on Christmas Day, found three theaters overcrowded and ordered the people out of the aisles.

FRANK MILLER,
ERWIN REIF,
Fire Wardens.

Very respectfully forwarded through the Chief.

Respectfully forwarded to Director G. L. Hechler.

JAMES W. DICKINSON,
Chief.

DEPARTMENT OF LAW.

Department of Law.

Corporation Counsel,
MINER G. NORTON.

SIMPSON S. FORD First Assistant.
WILLIAM H. BOYD Second Assistant.
SAMUEL H. CROWL Third Assistant.
CHARLES G. EMERY Stenographer.
JACOB M. CRAWFORD Typewriter.
OSCAR J. HORN Clerk.

Report of the Corporation Counsel.

CLEVELAND, O., January 1, 1899.

To the Council:

I herewith submit a report of the business of the Department of Law for the year ending December 31, 1898.

The accompanying schedules contain a statement of the litigation in which the City is interested, showing the number of actions brought, the number disposed of, and the number now pending in the various courts of record, together with a comparative statement of the amount claimed and amount paid in the various cases. It also contains a statement of the kind and number of papers drawn, referred to, and reported on by this department during the year.

Respectfully,

MINER G. NORTON,

Corporation Counsel.

CASES BROUGHT BY OR AGAINST THE CITY OR
ITS VARIOUS OFFICERS DURING THE YEAR
ENDING DECEMBER 31, 1898.

CIRCUIT COURT OF THE UNITED STATES.

- 5693 Bigelow et al. vs. City et al. Action begun to recover possession of real estate. October 18, 1898, verdict for plaintiff against City for possession of land. Motion for new trial not passed upon.
- 5730 City vs. C. C. C. & St. L. Ry. Co. et al. January 8, 1898, transcript of docket from Common Pleas Court filed.
- 5732 The Park National Bank vs. Hubbard et al. Action begun January 17, 1898, to restrain defendants from collecting certain taxes.
- 5756 Pennsylvania Company vs. City et al. March 2, 1898, action begun to restrain defendants from interfering with plaintiff driving piles in Lake front. Temporary injunction granted.
- 5818 City vs. C. & P. R. R. Co. et al. Case transferred from Insolvency Court, October 1, 1898. To appropriate land for River widening.
- 5833 The United States of America vs. Director of Public Works et al. Action begun October 6, 1898, to enjoin City from dumping in Lake Erie. October 17, 1898, restraining order entered. November 14, 1898, motion to set aside restraining order overruled.
- 5839 The Cleveland City Railway Company vs. City. Action begun October 29, 1898, to enjoin City from enforcing low fare ordinance. Temporary injunction granted.
- 5840 The Cleveland Electric Railway Company vs. City. Action begun October 29, 1898, to enjoin City from enforcing low fare ordinance. Temporary injunction granted.

DISTRICT COURT OF THE UNITED STATES.

- 2227 Henderson vs. City. Action begun February 11, 1898, to recover \$322.28 and interest from the 7th day of November, 1897, for damages sustained in collision between schooner Typo and Fire Boat.

SUPREME COURT OF OHIO.

- 5881 State ex rel. Frank S. Monnett, Attorney General vs. Molyneaux et al. Action begun to oust Board of Equalization. June 27, 1898, demurrer to defendants' answer sustained and judgment of ouster given.
- 5990 State of Ohio ex rel. Addyston Pipe and Steel Co. vs. City et al. Appealed from Circuit Court to compel defendants to enter into contract for pipe with plaintiff. May 16, 1898, demurrer to petition sustained and petition dismissed.
- 6119 State of Ohio ex rel. City of Cleveland vs. The Cleveland Electric Railway Company. Appealed from Circuit Court.

CIRCUIT COURT OF CUYAHOGA COUNTY.

- 2175 State ex rel. Addyston Pipe and Steel Co. vs. City et al. Mandamus proceedings begun March 15, 1898, to compel defendants to enter into contract with the plaintiff. March 29, 1898, court finds for defendants and petition dismissed.
- 2256 State ex rel. Wilmot et al. vs. Buckley et al. August 5, 1898, quo warranto proceedings begun to oust Board of Elections. December 23, 1898, demurrer by relators to answer of defendants sustained in part and refused in part.
- 2183 Whitehouse vs. Burgess. Appealed from Common Pleas Court.
- 2274 City vs. Steffen. October 10, 1898, petition in error filed.
- 2261 City vs. McManamon. Appealed from Common Pleas Court.

COMMON PLEAS COURT.

- 52538 Bliss et al. vs. Hubbard et al. Injunction to enjoin collection of taxes. May 31, 1898, dismissal set aside and case re-instated.
- Rinks vs. Dorn. Habeas corpus proceedings to secure release of plaintiff from work house. September 6, 1898, plaintiff discharged.
- 61983 Lawrence vs. Hubbard et al. Action begun to restrain defendants from collecting taxes on land on Genesee St. Temporary injunction allowed.
- 62056 Halle et al. vs. City and R. S. Hubbard. Action begun January 8, 1898, to restrain defendants from collecting certain taxes. July 20, 1898, defendants perpetually enjoined.

- 62057 Agate vs. Hubbard et al. Action begun January 8, 1898, to restrain defendants from collecting certain taxes. May 21, 1898, defendants perpetually enjoined.
- 62058 Curtiss, Ambler Realty Co. vs. Hubbard et al. Action begun January 8, 1898, to restrain defendants from collecting certain taxes. May 21, 1898, defendants perpetually enjoined.
- 62075 Ames vs. Hubbard et al. Action begun January 13, 1898, to restrain defendants from collecting certain taxes. Temporary restraining order continued in force.
- 62076 Ames vs. Hubbard et al. Action begun January 10, 1898, to restrain defendants from collecting certain taxes. May 21, 1898, defendants perpetually enjoined.
- 62087 Adler et al. vs. Hubbard et al. Action begun January 13, 1898, to restrain defendants from collecting certain taxes.
- 62088 Synenberg vs. Duckwitz et al. Action begun January 11, 1898, to recover \$2,500 damages for injuries sustained in falling in depression in sidewalk at the corner of Forest street and Scovill avenue.
- 62906 Meek vs. Board of Education. Action begun March 26, 1898, to recover \$960 for lathing and plastering of the Willard street school house.
- 62117 Smith et al. vs. Hubbard et al. Action begun January 13, 1898, to restrain defendants from collecting certain taxes. May 21, 1898, defendants perpetually enjoined.
- 62133 Cooney vs. Campbell et al. Action begun January 14, 1898, to recover \$10,000 damages for injuries sustained in falling into coal-hole on Viaduct street.
- 62275 English vs. Morgan et al. Action begun January 25, 1898, to recover \$2,000 damages for false arrest.
- 62351 Waitt vs. City. Action begun February 1, 1898, to recover \$500 damages for injury to horse in stepping into hole on Central avenue, near the intersection of Huntington street.
- 62425 Quinn vs. City. Action begun February 8, 1898, to recover \$5,000 damages for injuries sustained while running stationary engine in Workhouse.
- 62550 McHale vs. City. Action begun February 21, 1898, to recover \$1,000 damages for injuries sustained in falling on sidewalk at corner of Winslow and Center streets.

- 62574 **Smith vs. City.** Action begun February 24, 1898, to recover \$5,000 damages for injuries received in falling on sidewalk on Payne avenue near the intersection of Muirson and Superior streets. October 27, 1898, case settled by payment to plaintiff of \$125 by the City of Cleveland, and \$75 by the property owner.
- 62799 **McMahon vs. Board of Education.** Appealed from Justice Court. March 16, 1898, transcript filed. Case removed to Court of Insolvency.
- 62832 **City vs. Commissioners of Cuyahoga County.** March 18, 1898, petition filed to recover money for the care of insane persons from Cuyahoga County.
- 62921 **Trunk vs. Krejci.** Action begun March 28, 1898, to recover \$10,000 for false imprisonment.
- 62922 **Madigan vs. Krejci.** Action begun March 28, 1898, to recover \$10,000 for false imprisonment.
- 62969 **Nahm vs. City.** Action begun April 2, 1898, to recover \$1,000 and to abate nuisance.
- 63058 **Kelley vs. City.** Action begun April 13, 1898, to recover \$5,000 damages. July 2, 1898, case dismissed by plaintiff.
- 63111 **City vs. Commissioners of Cuyahoga County.** April 19, 1898, petition filed for recovery of money only for care of insane persons.
- 63156 **Tweedie vs. City.** Action begun April 23, 1898, to recover \$20,000 damages to property caused by stopping up drain running in land forcing water back into cellar.
- 63190 **City vs. Barrétt Brewing Co.** Action begun April 28, 1898, to recover \$766.40 water rent.
- 63234 **Marks vs. City.** Action begun May 6, 1898, to recover \$5,000 damages for injuries sustained by reason of being thrown from wagon at Central Viaduct.
- 63298 **Claffin Paving & Contracting Co. vs. City.** May 11, 1898, transcript of docket in Justice Court filed. Attested account. Transferred to Court of Insolvency.
- 63300 **City vs. Ohmenhauser.** Appealed from Insolvency Court. Relative to appropriation of land for sewer purposes in Ackley avenue.
- 63412 **McClure vs. McClure et al.** Action begun May 23, 1898, for divorce and alimony. City garnished. July 8, 1898, dismissed by plaintiff at her costs.

- 63679 **Everett vs. City.** Action begun June 24, 1898, to recover \$10,000 damages for injuries received in falling on icy sidewalk on West Madison avenue.
- 63750 **Hooper vs. City.** Action begun July 1, 1898, to recover \$20,000 damages for injuries sustained by being struck by skyrocket. December 14, 1898, demurrer to petition sustained at plaintiff's costs.
- 63801 **Singer, by etc. vs. Sanders et al.** Action begun July 7, 1898, to recover \$2,041 for false arrest.
- 63899 **Leber vs. Kelly Island Lime & Transportation Co. et al.** Action begun July 16, 1898, to recover \$6,000 damages for personal injuries sustained in falling on icy sidewalk on Purdy street.
- 63937 **Flanagan et al. vs. Hubbard et al.** Action begun July 19, 1898, to restrain defendants from collecting taxes on Walnut street sewer. Temporary injunction granted.
- 63949 **Davis et al. vs. Hubbard et al.** Action begun July 20, 1898, to restrain defendants from collecting taxes on certain property in 41st ward. Temporary injunction granted.
- 64043 **Preising vs. Palutze et al.** Action begun July 30, 1898, to recover \$10,200 for personal injuries received in falling on icy sidewalk on Swiss street.
- 64188 **Smith vs. City.** Action begun August 12, 1898, to recover \$2,500 damages to lot adjoining engine house.
- 64220 **Black, Admx. vs. Gawne et al.** Action begun August 16, 1898, to recover \$10,000 for loss of life in tunnel accident.
- 64221 **Teolin, Admx. vs. Gawne et al.** Action begun August 16, 1898, to recover \$10,000 for loss of life in tunnel accident.
- 64228 **Corrigan, Admx. vs. Gawne et al.** Action begun August 17, 1898, to recover \$10,000 damages for loss of life in tunnel accident.
- 64229 **Mayer, Admx. vs. Gawne et al.** Action begun August 17, 1898, to recover \$10,000 damages for loss of life in tunnel accident.
- 64243 **McCauley, Admx. vs. Gawne et al.** Action begun August 18, 1898, to recover \$10,000 damages for loss of life in tunnel accident.
- 64275 **Gawne, Admr. vs. Gawne et al.** Action begun August 23, 1898, to recover \$10,000 damages for loss of life in tunnel accident.
- 64326 **Grabovski vs. City et al.** Action begun August 30, 1898, to recover \$10,050 for damages sustained by falling into a drain on Rhodes avenue.

- 64398 Klement, Admx. vs. Gawne et al. Action begun September 7, 1898, to recover \$10,000 damages for loss of life in tunnel accident. December 17, 1898, settled at plaintiff's costs.
- 64417 Roth vs. Terwood et al. Action begun September 8, 1898, to recover \$10,200 damages for injuries sustained in falling on icy sidewalk on Swiss street.
- 64418 McFadden, Admx. vs. Gawne et al. Action begun September 8, 1898, to recover \$10,000 damages for loss of life in tunnel accident.
- 64438 Dilley vs. L. S. & M. S. Ry. Co., et al. Action begun September 10, 1898, to recover \$10,000 damages for personal injuries received on Bath street.
- 64450 Riddle vs. Riddle et al. Action begun September 13, 1898, for injunction and equitable relief.
- 64464 Gilger, Admr. vs. Gawne et al. Action begun September 14, 1898, to recover \$10,000 damages for loss of life in tunnel accident.
- 64465 Gilger, Admr. vs. Gawne et al. Action begun September 14, 1898, to recover \$10,000 damages for loss of life in tunnel accident.
- 64467 Hanney, Admx. vs. Gawne et al. Action begun September 14, 1898, to recover \$10,000 damages for loss of life in tunnel accident.
- 64632 Esterle, Admx. vs. City. Action begun October 1, 1898, to recover \$10,000 damages for loss of life in falling from fire engine at corner of Jefferson street and Emmet alley.
- 64638 McConnell vs. May et al. Action begun October 21, 1898, to recover \$2,000 damages for false arrest.
- 64770 Lavelle vs. City. Action begun October 15, 1898, to recover \$10,000 damages for personal injuries received while working in Water Works trench on South Willson avenue.
- 64833 Gorman vs. City. Action begun October 21, 1898, to recover \$3,000 damages for injuries sustained in falling in hole in sidewalk on Russia street.
- 64956 Sturznickel vs. Yanders et al. Action begun November 2, 1898, to recover \$10,250 damages for personal injuries received while in Workhouse.
- 64976 Wachs Admx. vs. Gawne et al. Action begun November 4, 1898, to recover \$10,000 damages for loss of life in tunnel accident.
- 65056 O'Brien vs. City. Action begun November 11, 1898, to recover \$6,086.12 claimed to be due on contract for constructing sub-structure of bridge No. 54 at the entrance to Edgewater Park.

- 65065 Tucker, Admr. vs. Gawne et al. Action begun November 12, 1898, to recover \$10,000 damages for loss of life in tunnel accident.
- 65208 Decker vs. City. Action begun November 25, 1898, to recover \$1,000 damages to property in building culvert and grading Kimmel street.
- 65225 Hiller vs. City. Action begun November 28, 1898, to recover \$1,000 damages to property for building culvert and grading Kimmel street.
- 65226 Engel vs. City. Action begun November 26, 1898, to recover \$500 damages to property in grading and constructing culvert in Kimmel street.
- 65281 Colburn vs. Colburn et al. Action begun December 2, 1898, for divorce and alimony. City garnished.
- 65424 City vs. Wooldridge. Appealed from Insolvency Court. Appropriation of slope right for Willson avenue bridge. December 17, 1898, transcript from Court of Insolvency filed.
- 65502 Masterson vs. City. Action begun December 27, 1898, to recover \$5,000 damages for personal injuries received in falling on icy sidewalk on Pearl street.
- 65535 The Treasurer of Cuyahoga County vs. J. S. M. Hill et al. Action begun December 30, 1898, to subject lands and for equitable relief.
- 65556 Boss vs. City. Action begun December 31, 1898, to recover \$5,000 for personal injuries received.

SPECIAL DOCKET.

- 6893 In the matter of the Report of the Commissioners appointed by the City of Cleveland and the Village of Collinwood to designate streets to be occupied for sewer purposes by said City in said Village. September 24, 1898, report of Commissioners filed. November 21, 1898, report confirmed.

COURT OF INSOLVENCY.

APPEAL DOCKET.

- 1058 McMahon vs. Board of Education. Appealed from Justice Court to Common Pleas Court.
- 1128 Claffin Paving & Contracting Co. vs. City. Transferred from Common Pleas Court. Attested Account.

APPROPRIATION DOCKET.

- 171 City vs. Janes et al. Action begun January 28, 1898, to appropriate property for the widening of Golden avenue. March 17, 1898, compensation awarded.
- 189 City vs. Ohmenhauser et al. Action begun March 14, 1898, to appropriate property for sewer purposes. April 16, 1898, compensation awarded.
- 221 City vs. Humphreys et al. Action begun June 10, 1898, to appropriate property for the opening of Minerva street. July 1, 1898, compensation awarded.
- 225 City vs. Lucchel et al. Action begun June 15, 1898, to appropriate property for the opening and extending of Gustave court. July 16, 1898, compensation awarded.
- 234 City vs. Starr et al. Action begun July 5, 1898, to appropriate property for the widening of Congress street. July 28, 1898, compensation awarded.
- 238 City vs. Harrison et al. Action begun July 8, 1898, to appropriate property for cemetery purposes. July 28, 1898, compensation awarded.
- 239 City vs. Chandler et al. Action begun July 8, 1898, to appropriate property for the widening of High street. August 16, 1898, compensation awarded.
- 240 City vs. Smith et al. Action begun July 8, 1898, to appropriate property for the widening of Euclid avenue from the old to the new City limits. August 12, 1898, compensation awarded.
- 244 City vs. Ranney et al. Action begun July 20, 1898, to appropriate property for park purposes. August 5, 1898, compensation awarded.
- 245 City vs. The Cleveland and Pittsburgh R. R. Co. et al. Action begun July 21, 1898, to appropriate property for the widening of the Cuyahoga River. Case transferred to U. S. Circuit Court.
- 246 City vs. Roberts et al. Action begun July 21, 1898, to appropriate property for the extension of Commonwealth avenue. August 12, 1898, compensation awarded.
- 255 City vs. Silverstein et al. Action begun August 24, 1898, to appropriate property for the purpose of opening and extending Brownell street. September 19, 1898, compensation awarded.

- 278 City vs. Boardman et al. Action begun November 21, 1898, to appropriate property for the Center street bridge.
- 282 City vs. Bernard et al. Action begun December 3, 1898, to appropriate property for the widening and extension of Edgewood place.
- 284 Carter vs. City. Action December 9, 1898, to compel City to appropriate land for Garfield Park.

IN THE JUSTICES' COURTS.

The following cases were brought and disposed of in Justice Courts:

- Kitty Welsh vs. W. F. Chamberlain. Attachment.
- J. Lyman vs. Geo. J. Stechler. Attachment.
- Mrs. F. P. Hornstock vs. John Ochs. Attachment.
- Robert Meek vs. Board of Education. Work and labor.
- Jas. McMahon vs. Board of Education. Work and labor.
- G. J. & J. B. Mooney vs. Dempsie L. Graves. Order in aid of Ex.
- Benjamin Koch vs. Henry Miller. Attachment.
- J. B. Williams vs. James & Geo. A. Bailey. Attachment.
- City of Cleveland vs. William Sprow. Illegal Voting.
- Clafin Pav. & Con. Co. vs. City of Cleveland. Attested Account.
- M. E. Kavanaugh vs. City. For tax rebate.
- M. E. Kavanaugh vs. City. For tax rebate.
- J. J. Lynch vs. H. M. Clafin. Attested Account.
- Samuel Klopstein vs. Wm. Clair. Attachment.
- F. L. Coulton vs. C. M. Spicer. Attachment.
- D. H. Tolman vs. Geo. Mulholland. Order in aid of execution.
- D. H. Tolman vs. Albert Donovan. Order in aid of execution.
- D. H. Tolman vs. Wm. Mulcahy. Order in aid of execution.
- Richard Roberts vs. Leibenthal et al. Work, labor and material.
- C. Creighton vs. L. Earl. Attachment.
- Mary Lavelle vs. P. Murphy. Attachment.
- Joe. Mitchell vs. Shailer & Shingler et al. Attachment.
- Thomas Caslin vs. Shailer & Shingler et al. Attachment.
- Pat. Murphy vs. Shailer & Shingler et al. Attachment.
- Mike Monnahan vs. Shailer and Shingler et al. Attachment.

Herbert Wilkinson vs. Shailer & Shingler et al. Attachment.
John Lally vs. Shailer & Shingler et al. Attachment.
John Conran vs. Shailer & Shingler et al. Attachment.
John Brown vs. Shailer & Shingler et al. Attachment.
Louis Loss vs. Shailer & Shingler et al. Attachment.
F. H. Neff, Admr. vs. Thomas Hobbs et al. Order in aid of execution.
Cleveland Builders' Supply Co. vs. The Claflin Paving & Contracting Company. Order in aid of execution.
Chas. Steadman vs. Daniel Heffron. Order in aid of execution.
Auerbach et al. vs. F. W. Stockey. Order in aid of execution.
J. J. Thomas vs. Geo. A. Bailey. Order in aid of execution.
Chas. Creighton vs. Grant Gairns. Order in aid of execution.
Maloney vs. Westwater et al. Attachment.
A. Belfoy vs. City of Cleveland et al. Injury to horse.
Moskowitz vs. Prindle. Order in aid of execution.
Wilder vs. Nevin. Attachment.
Collister vs. Currier. City garnisheed.
Kennedy vs. Long. Order in aid of execution.
Lavelle vs. Murphy. Order in aid of execution.
Blakeslee vs. Prindle. Attachment.

The following case is still pending:—

Kadel vs. City of Cleveland. Action begun to recover \$128 damages for the seizing and destroying of goods by the Department of Health in order to abate a nuisance.

Cases disposed of during the period between December 31, 1897, and January 1, 1899:

UNITED STATES CIRCUIT COURT OF APPEALS.

- 544 City vs. The Hawgood & Avery Transit Co. Appealed from the United States District Court to reverse decree of \$7,118.21 for damages awarded for collision of boat with Upper Seneca Street Bridge. June 7, 1898, decree of United States District Court affirmed.
- 560 City vs. William Chisholm. Appealed from the United States District Court to reverse decision in favor of defendant in error for \$3,879.15. December 23, 1898, verdict and decree affirmed.

CIRCUIT COURT OF THE UNITED STATES.

- 4909 **Brickell vs. City.** February 8, 1898, case dismissed by plaintiff Brickell on payment of costs.

SUPREME COURT OF OHIO.

- 4922 **Mack vs. The DeGraff & Roberts Quarries et al.** City garnisheed. January 28, 1898, judgment of lower court affirmed.
- 5526 **City vs. Baldt.** Action brought to reverse judgment in favor of defendant in error for \$5,725 for damages sustained at South Water Street Bridge. October 11, 1898, judgment of lower court affirmed.
- 5229 **The Woodland Avenue & West Side Street Railroad Company et al. vs. Molt, Admx.** January 13, 1898, judgment of lower court against said street railroad company and the City of Cleveland for \$10,000 affirmed. City liable for one-half of said amount.
- 5550 **City vs. Patrick Gorman.** Action brought on appeal to reverse judgment against City in the sum of \$3,000. May 30, 1898, judgment of lower court affirmed.
- 5706 **Whitbeck, Treas. vs. Crocker.** Action begun to reverse decision of lower court giving plaintiff \$3,500 for back taxes. April 20, 1898, case settled by payment to defendant in error the sum of \$3,500 without interest.
- 5881 **The State of Ohio ex rel. Frank S. Monnett, Atty. Gen. vs. Molyneaux et al.** Action begun to oust Board of Equalization. June 27, 1898, demurrer to defendants' answer sustained and judgment of ouster given.
- 5990 **State of Ohio ex rel. Addyston Pipe & Steel Co. vs. City et al.** Appealed from Circuit Court to compel defendants to enter into contract with the plaintiff company. May 16, 1898, demurrer of City to plaintiff's petition sustained and petition dismissed.
- 6119 **State ex rel. City of Cleveland vs. C. E. Ry. Co.** Appealed from Cuyahoga Circuit Court to reverse decision in favor of defendant in error to allow tearing up of street car tracks on Murray Hill avenue. October 23, 1898, case dismissed by consent of parties.

CUYAHOGA COUNTY CIRCUIT COURT.

- 1780 City vs. Engert. Motion by defendant to retax costs. Refused.
- 1878 Gorman vs. City. Interpleader. Judgment of Common Pleas Court affirmed.
- 1933 State ex rel. C. H. Black vs. D. E. Wright. Action begun February 6, 1896, to compel defendant to issue plumber's permit. March 12, 1898, relator dismissed action at his costs.
- 2015 Thomas Brown vs. City et al. Action begun to reverse decree in favor of defendant in error and to compel defendants to enter into contract with the Sun Vapor Light Co. On motion appeal herein dismissed at plaintiff in error's costs.
- 2031 American Surety Company vs. Raeder et al. City garnisheed. Action brought to reverse decree in favor of defendant in error. Judgment of Common Pleas Court affirmed.
- 2049 State ex rel. City of Cleveland vs. C. E. Ry. Co. Action begun to restrain defendant from tearing up street car tracks on Murray Hill avenue. Petition dismissed. Appealed to Supreme Court.
- 2053 Hubbard et al. vs. Sommer et al. Action to reverse decree in favor of defendant in error to restrain collection of taxes. January 29, 1898, judgment of lower court affirmed.
- 2041 City vs. Phillips. Judgment in favor of defendant in error confirmed by Circuit Court.
- 2066 City vs. Denison et al. Error to Common Pleas Court to reverse verdict for defendant in error for \$1,362.80 damages for breach of contract. July 1, 1898, judgment of Common Pleas Court affirmed.
- 2175 State ex rel. Addyston Pipe & Steel Co. vs. City. Mandamus proceedings begun March 15, 1898, to compel defendants to enter into contract with plaintiff for water pipe. March 29, 1898, court finds for defendants and dismissed petition.
- 2256 State ex rel. Wilmot et al. vs. Buckley et al. Quo warranto proceedings begun August 5, 1898, to oust Board of Elections. December 23, 1898, demurrer by relators to answer of defendants sustained in part and overruled in part, sustaining jurisdiction of said board as to City, and granting ouster as to County.
- 2261 City vs. McManamon. Appealed from Common Pleas Court. December 23, 1898, motion by defendant in error to dismiss case granted.

COURT OF COMMON PLEAS.

- 36391 Tuttle vs. City. Action begun January 23, 1890, to recover \$10,000 damages to property on Fairmount street by reason of change of grade. Petition dismissed.
- 43320 Martens vs. City. Action begun August 20, 1892, to recover \$25,000 damages for personal injuries caused by driving into sewer hole on Asylum street. April 21, 1898, case settled at defendant's costs by payment to plaintiff of the sum of \$200.
- 45528 Harrison et al. vs. City. Action begun March 11, 1893, to recover \$950 damages by reason of change of grade on Union street. October 3, 1898, petition dismissed for want of prosecution.
- 45533 Griffiths vs. City. Action begun May 12, 1893, to recover \$1,000 damages by reason of change of grade on Union street. October 3, 1898, petition dismissed for want of prosecution.
- 45722 Steele vs. City. Action begun June 7, 1893, to recover \$10,000 damages for personal injuries. Case dismissed for want of prosecution.
- 46420 City vs. C. C. C. & St. L. Ry. Co. et al. Action begun August 17, 1893, for recovery of real estate on Lake front. January 8, 1898, case removed to United States Circuit Court.
- 46879 Board of Education of Brooklyn Village vs. Firchow et al. Interpleader. June 19, 1898, court orders distribution of money in hands of clerk of court.
- 49042 Canton & Malvern Fire Brick Paving Co. vs. Sterling et al. Money only. City garnisheed. Finding for plaintiff to recover \$3,622.68.
- 49579 Weitzel vs. Stanton. Action begun July 6, 1894, to recover \$5,000 damages for false arrest. Case dismissed for want of prosecution.
- 49697 Mosinski vs. City. Injunction and relief. May 10, 1898, defendants perpetually enjoined.
- 49798 Meek vs. C. E. Ry. Co. et al. Action begun July 26, 1894, to recover \$2,500 damages on account of railway company changing grade of Cedar avenue in front of plaintiff's property. April term, 1898, case dismissed for want of prosecution.
- 50233 McManamon vs. City. Action begun September 11, 1894, to recover \$15,000 damages for personal injuries received in water pipe trench. January 24, 1898, verdict for plaintiff in the sum of \$4,500. Appealed to Circuit Court.

- 50389 Hamlet of Lakewood vs. Weideman. Action to recover real estate on Highland avenue. April term, 1898, case dismissed.
- 51609 Steffen vs. City. Action begun January 26, 1895, to recover \$20,000 damages for personal injuries. June 11, 1898, verdict for plaintiff in the sum of \$3,250. Appealed to Circuit Court.
- 52388 Hubbard vs. City and J. S. M. Hill et al. To subject lands. April 26, 1896, by consent of parties, plaintiff accepts \$2,277.82 in full settlement, City not liable for any of said amount.
- 52628 Wieber vs. City. Action begun May 23, 1895, to recover \$1,212.81. March 12, 1898, Jury waived and finding for plaintiff for \$583.85.
- 52653 Ludwig vs City et al. Action begun May 25, 1895, to recover \$1,500 damages for personal injuries received. Case settled by payment to plaintiff of \$300 and costs of court.
- 52867 Sunderland vs. City. Action begun June 20, 1895, to recover \$600 damages for injury to horse from falling in hole on Broadway. January term, 1898, case settled at plaintiff's costs.
- 52891 Leferink vs. Ottawa Co. et al. Action begun June 24, 1895, to recover \$15,300 damages for personal injuries received on Sheriff street. Verdict against defendant Ottawa Co. for \$944 50, and verdict for City of Cleveland and defendant Kickheim.
- 53095 Young vs. City. Action begun July 16, 1895, to recover \$10,000 damages for personal injuries received in a run-away accident while employed by City Water Works. March 1, 1898, case settled in full by payment to plaintiff of the sum of \$150.
- 53367 Collins vs. City. Action begun August 18, 1895, to recover \$15,000 damages for personal injuries received in falling into coal hole on Ontario street. January 5, 1898, judgment for plaintiff in the sum of \$5,000.
- 53493 Rafter vs. City. Action begun August 29, 1895, to recover \$25,000 damages for personal injuries sustained while assisting to construct Petrie street bridge. July 1, 1898, verdict for defendant.
- 54093 Urbanowitz vs. Board of Education and P. J. Black. Accounting and equitable relief. April term, 1898, dismissed for want of prosecution.
- 54461 Barth vs. Wachs. Action begun December 7, 1895, to recover \$2,500 damages. Case dismissed for want of prosecution.

- 54905 Mahon vs. Burgess et al. Action begun January 24, 1896, to recover \$600 damages. City garnisheed. Jury waived and finding for defendants Burgess & Gribben for \$11.60. Judgment for defendant against plaintiff for costs, the City of Cleveland to pay Burgess & Gribben money in its possession.
- 54926 Ralston vs. Morgan et al. Action begun January 26, 1896, to recover \$10,000 damages for personal injuries. Case settled in full by payment to plaintiff of \$75.
- 54959 Luesch vs. City et al. Action begun January 29, 1896, to recover \$10,000 damages. Case settled by defendant Cleveland Electric Railway Company without expense to City.
- 55151 Hillman vs. Shibley. Action begun February 17, 1896, to recover \$5,000 damages for false imprisonment. Case dismissed for want of prosecution.
- 55543 Whitehouse vs. Burgess et al. Action begun March 23, 1896, to recover \$529.23. City garnisheed. Verdict for plaintiff for \$489.30 by consent.
- 55661 Roundey vs. City. Action begun April 6, 1896, to recover \$25,000 damages for personal injuries received by falling at or near Swiss street Station. June 10, 1898, case settled in full by payment to plaintiff of \$200.
- 56056 McMeans vs. City et al. Action begun May 18, 1896, to recover \$1,000 for damages sustained in falling on icy sidewalk on Erie street. November 2, 1898, case settled by payment to plaintiff of \$200.
- 56162 Long vs. City et al. Action begun May 29, 1896, to recover \$50,000 damages for loss of limb in an accident on Superior street. September 3, 1898, case settled by payment to said plaintiff of \$3,500, one-half by City and one-half by Shields.
- 56307 Mitchell et al. vs. City. Action begun June 15, 1896, to recover \$335 damages caused to property by overflow of sewer at corner of Superior street and Russell avenue. February 12, 1898, case settled by payment to plaintiff of \$300.
- 56317 Steiner vs. Moses. Action begun June 17, 1896, to recover \$500 damages for false arrest. May 31, 1898, case settled by payment to plaintiff of \$30.
- 56402 McCarty vs. Gavin. Action begun June 26, 1896, to recover \$2,000 damages for false arrest. April term, 1898, dismissed for want of prosecution.

- 56565 Cone vs. City. Action begun July 19, 1896, to recover \$500 for change of grade on Dudley street. November 3, 1898, verdict for plaintiff for \$350.
- 56689 Bissett vs. City. Action begun August 3, 1896, to recover \$3,000 for damages to house and lot by reason of the overflow of sewer at Petrie and Rockert streets. October 27, 1898, case settled on payment to plaintiff of \$300.
- 56821 City vs. The T. B. Townsend Brick & Contracting Co. August 21, 1896, action begun to recover \$1,201.60 damages for breach of contract for grading of Emmet street. October 6, 1898, judgment for plaintiff for \$14.25. Appealed to Circuit Court. January 7, 1899, bill of exceptions allowed and petition in error filed in Circuit Court.
- 56896 Sackett vs. Mawby. Replevin proceedings to gain possession of horse. February 4, 1898, finding for plaintiff against defendant for \$500. City not liable.
- Rinks vs. Dorn. Petition filed to secure release of plaintiff from Workhouse. September 6, 1898, plaintiff discharged.
- 57099 McKee vs. City. Action begun September 17, 1896, to recover \$5,000 damages for personal injuries sustained in being thrown out of buggy on Euclid avenue. March 19, 1898, case settled by payment to plaintiff of \$200.
- 57098 Richards vs. City. Action begun September 15, 1896, to recover \$5,000 damages for personal injuries sustained in being thrown out of buggy on Euclid avenue. March 19, 1898, case settled by payment to plaintiff of \$200.
- 57266 Fire Association of Philadelphia vs. Zapp et al. Money only. City garnisheed. Settled without record at plaintiff's costs.
- 57876 Wickline vs. Seeley. Action begun November 25, 1896, to recover \$5,000 damages for false arrest. October 12, 1898, case dismissed for want of prosecution.
- 58203 Kinney vs. City. Action begun December 26, 1896, to recover \$10,000 damages for personal injuries received in falling on defective sidewalk on Superior street Viaduct. March 28, 1898, verdict for defendant.
- 58492 Johnson et al. vs. City et al. Action begun January 18, 1897, to restrain defendants from collecting certain taxes. April term, 1898, case dismissed for want of prosecution.

- 58832 Kemmett vs. Campbell et al. Action begun February 19, 1897, to recover \$10,000 damages for personal injuries received in front of defendant Campbell's property on Viaduct. April term, 1898, case dismissed for want of prosecution.
- 59156 Desnoyers vs. City. Action begun March 21, 1897, to recover \$749.12 for plumbing work done for City. October 19, 1898, Jury sworn and verdict by direction for plaintiff in the sum of \$150.
- 59166 Bissett vs. Ross. Action begun March 23, 1897, for \$5,000 damages for false arrest. October 12, 1898, case dismissed for want of prosecution.
- 59376 Franz vs. City. Action begun April 12, 1897, to recover \$5,000 damages. May 24, 1898, verdict for defendant by direction of court.
- 59570 Witt vs. Woelke. Action begun May 4, 1897, to recover \$5,000 for false arrest. December 17, 1898, verdict for defendant.
- 59733 Cavanaugh vs. City. Action begun May 20, 1897, to recover \$20,200 damages for personal injuries received. November 4, 1898, case settled by payment to plaintiff of \$50.
- 59802 Braun et al. vs. City. Action begun May 29, 1897, to recover \$387.20 for damages to goods in cellar caused by break in water pipe. November 28, 1898, verdict for defendant by direction of court.
- 59806 Kushner vs. City et al. Action begun May 29, 1897, to recover \$10,300 damages for personal injuries received. Case dismissed by plaintiff at his cost.
- 60386 Welsh vs. City. Action begun July 27, 1897, to recover \$5,000 damages for personal injuries received at the Willson avenue bridge. August 17, 1898, case settled by payment to plaintiff of \$300.
- 60485 Bigelow vs. City et al. Action begun to recover real estate. Case transferred to U. S. Circuit Court.
- 61042 Lippus vs. Lippus et al. Action begun September 28, 1897, for divorce, alimony and equitable relief. City garnisheed. November 30, 1898, divorce granted.
- 61226 Smith vs. City et al. October 18, 1897, injunction proceedings commenced to determine validity of Library bonds. July 28, 1898, case dismissed by plaintiff without prejudice.
- 61289 Platt vs. Morrison et al. Dower. City garnisheed. September 19, 1898, plaintiff dismisses action as to City of Cleveland and certain other defendants.

- 61348 Hughes vs. City. Action begun October 27, 1897, to recover \$15,000 for personal injuries received in falling into man-hole at corner of Bridge and Jersey streets. July 2, 1898, case settled by payment to plaintiff of \$500.
- 61625 Foster vs. Foster et al. November 24, 1897, action commenced for divorce and alimony. July 2, 1898, divorce granted.
- 61784 LeDuke vs. O'Brien et al. December 8, 1897, action begun for dissolution of partnership and appointment of receiver. City garnisheed. February 1, 1898, case settled at defendant O'Brien's costs.
- 62056 Halle et al. vs. City and R. S. Hubbard. Action begun January 8, 1898, to restrain defendants from collecting certain taxes. July 20, 1898, defendants perpetually enjoined.
- 62057 Agate vs. Hubbard et al. Action begun January 8, 1898, to restrain defendants from collecting certain taxes. May 21, 1898, defendants perpetually enjoined.
- 62058 The Curtiss & Ambler Realty Co. vs. Hubbard et al. January 8, 1898, action begun to restrain defendants from collecting certain taxes. May 21, 1898, defendants perpetually enjoined.
- 62076 Ames et al. vs. Hubbard et al. Action begun January 10, 1898, to restrain defendants from collecting certain taxes. May 21, 1898, defendants perpetually enjoined.
- 62117 Smith et al. vs. Hubbard et al. Action begun January 13, 1898, to restrain defendants from collecting certain taxes. May 21, 1898, defendants perpetually enjoined.
- 62574 Smith vs. City. Action begun February 24, 1898, to recover \$5,000 damages for injuries sustained in falling on sidewalk on Payne avenue near intersection of Muirson and Superior streets. October 27, 1898, case settled by payment to plaintiff of \$125 by City of Cleveland and \$75 by property owner.
- 62640 Gorman vs. Cain et al. Action begun March 2, 1898, to recover \$5,000 damages for injuries received in falling in hole on sidewalk on Russia street. June 8, 1898, action dismissed by plaintiff at his costs.
- 62799 McMahon vs. Board of Education. Appealed from Justice Court. March 16, 1898, transcript of docket filed. Case removed to Insolvency Court.
- 63058 Kelley vs. City. Action begun April 13, 1898, to recover \$5,000 damages. July 2, 1898, case dismissed by plaintiff.

- 63298 Claflin Paving & Contracting Co. vs. City. May 11, 1898, transcript of docket from Justice Court filed. Attested account. Case transferred to Insolvency Court.
- 63412 McClure vs. McClure et al. Action begun May 23, 1898, for divorce and alimony. City garnisheed. July 8, 1898, case dismissed by plaintiff at her costs.
- 63750 Hooper vs. City. Action begun July 1, 1898, to recover \$20,000 damages for personal injuries sustained by being struck by sky-rocket. December 14, 1898, demurrer by City sustained at plaintiff's costs.
- 64398 Klement, Admx. vs. Gawne et al. Action begun September 7, 1898, to recover \$10,000 damages for loss of life in tunnel accident. December 17, 1898, case settled at plaintiff's costs,

SPECIAL DOCKET.

- 6893 In the matter of the Report of the Commissioners appointed by the City of Cleveland and the Village of Collinwood to designate the streets to be occupied for sewer purposes by said City in said village. September 24, 1898, report of the Commissioners filed. November 21, 1898, report confirmed.

COURT OF INSOLVENCY.

- 102 City vs. McGuire et al. Action begun August 6, 1897, to appropriate property for the Willett street bridge. July 16, 1898, compensation awarded Rosina Fassel, \$675 for an undivided half interest in land taken.
- 103 City vs. Michael Wooldridge et al. Action begun August 11, 1897, to appropriate property for a slope right for the Willson avenue bridge over the Nickle Plate tracks. October 29, 1897, compensation awarded Wooldridge \$2,500, but being excessive motion for new trial was granted, and November 28, 1898, Wooldridge awarded \$975 for land taken.
- 145 City vs. F. K. Reed et al. Action begun December 9, 1897, to appropriate property for the Warner road improvement. January 29, 1898, jury disagreed. May 23, 1898, compensation awarded defendants for land taken as follows: F. K. Reed, \$300; Mary E. Geddes, \$2,000; G. H. Helman, \$2,600; the Duff heirs, \$2,000; the Beavis heirs, \$7,000; Carrie LaPierre, \$300; E. N. Thomas, \$2,375.

- 171 City vs. Janes et al. Action begun January 28, 1898, to appropriate property for the widening of Golden avenue. March 17, 1898, compensation awarded defendants as follows: Lorenzo Janes, \$3,275; Frank Ptak and Anna Ptak, \$2,135; Vaclav Spevacek and C. Spevacek, \$2,852.
- 189 City vs. Ohmenhauser et al. Action begun March 14, 1898, to appropriate property for the Ackley avenue sewer. April 16, 1898, compensation awarded defendant Ohmenhauser, \$400.
- 221 City vs. Humphreys et al. Action begun June 10, 1898, to appropriate property for the opening and extending of Minerva street. July 1, 1898, compensation awarded defendant Humphreys, \$1,350.
- 225 City vs. Lucchel et al. Action begun June 15, 1898, to appropriate property for the purpose of opening and extending Gustave court. July 16, 1898, compensation awarded defendants as follows: Emily Sauer, Albert L. Sauer, Allis Sauer, Louise Sauer and Matilda Bigelow, \$750; Adam Lucchel, \$1,700.
- 234 City vs. Starr et al. Action begun July 5, 1898, to assess compensation for property taken for the purpose of widening Congress street. July 28, 1898, compensation awarded defendants as follows: Adam Starr and Lucy A. H. Burgert, \$900; Josephine B. Purcell, \$1,350; Julia B. Weaver and S. B. Weaver, \$500; F. L. Crobaugh and Lucy Crobaugh, \$600.
- 238 City vs. Harrison et al. Action begun July 8, 1898, to appropriate property for Cemetery purposes. July 28, 1898, compensation awarded defendants William Harrison and Wm. H. Tow \$4,687.50.
- 239 City vs. Chandler et al. Action begun July 8, 1898, to appropriate property for the purpose of widening High street. August 16, 1898, compensation awarded defendants as follows: Chas. R. and Frank M. Chandler, \$443; The W. P. Southworth Co., \$500; the estate of A. G. Harbaugh, deceased, \$250; J. H. Webster and the estate of E. A. Angel, deceased, \$405; Bertha Serina and Josephine Lehman, \$142; E. T. Hamilton and W. S. Tyler, \$250; Jessie M. Sides, \$200.
- 240 City vs. F. W. Smith et al. Action begun July 8, 1898, to assess compensation for land appopriated for the widening of Euclid avenue from the old to the new city limits. August 12, 1898, compensation awarded defendants as follows: Robert L. Hawks,

Catharine E. Hanks, Cas-y Hanks and Josephine Hanks, \$200, Florentine Henchen, \$3,000, George Steffen, John Steffen, Henry Steffen, Frederick Steffen and H. M. Steffen, \$250; Ada Wilburn, \$1,600; E. F. Benedict, \$400; E. H. Klaustermeier, Henry Klaustermeier, Martin H. Klaustermeier, Carl Klaustermeier, Emma Klaustermeier, Maria Klaustermeier, Dora Klaustermeier and Edwin Klaustermeier, \$3,000; Carrie E. McReynolds, \$2,625; Ada Graham, \$4,625; F. W. Smith, \$200.

- 244 City vs. Ranney et al. Action begun July 20, 1898, to assess compensation for land appropriated for park purposes. August 5, 1898, compensation awarded defendants as follows; Chas. P. Ranney, John R. Ranney and J. D. Cleveland, guardian, \$612.
- 245 City vs. The Cleveland & Pittsburgh Railroad Company et al. Action begun July 21, 1898, to assess compensation for land appropriated for the purpose of widening the Cuyahoga River. August 31, 1898, case transferred to the U. S. Circuit Court.
- 246 City vs. Roberts et al. Action begun July 21, 1898, to assess compensation for land appropriated for the purpose of opening and extending Commonwealth avenue. August 12, 1898, compensation awarded defendant, \$7,800.
- 255 City vs. Silverstein et al. Action begun August 24, 1898, to assess compensation for land appropriated for the opening and extending of Brownell street. September 19, 1898, compensation awarded defendants as follows: Eva Silverstein, \$6,000; estate of Ellen Josephine McNally, \$6,475; Louis Koblitz, \$3,000.

CASES PENDING JANUARY 1, 1899.

UNITED STATES CIRCUIT COURT.

- 4910 Van Orden vs. City. Infringement of patent.
- 5017 Pennsylvania Company vs. City et al. Whiskey Island.
- 5156 C. C. & S. R. R. Co. vs. Knickerbocker Trust Co. et al. Injunction money and foreclosure.
- 5714 Mercantile National Bank vs. Hubbard et al. Injunction and relief.
- 5715 First National Bank vs. Hubbard, Treasurer. Injunction and relief.
- 5716 Commercial National Bank vs. Hubbard, Treasurer. Injunction and relief.
- 5717 Cleveland National Bank vs. Hubbard, Treasurer. Injunction and relief.
- 5718 National City Bank vs. Hubbard, Treasurer. Injunction and relief.
- 5719 National Bank of Commerce vs. Hubbard, Treasurer. Injunction and relief.
- 5693 Bigelow vs. City et al. Action for recovery of real estate.
- 5720 Union National Bank vs. Hubbard, Treasurer. Injunction and relief.
- 5721 Euclid Avenue National Bank vs. Hubbard, Treasurer. Injunction and relief.
- 5722 Central National Bank vs. Hubbard, Treasurer. Injunction and relief.
- 5723 State National Bank vs. Hubbard, Treasurer. Injunction and relief.
- 5726 Western Reserve National Bank vs. Hubbard, Treasurer. Injunction and relief.
- 5732 The Park National Bank vs. Hubbard, Treasurer. Injunction and relief.
- 5730 City vs. C. C. C. & St. L. Ry. Co. et al. To recover real estate on lake front.
- 5818 City vs. Cleveland & Pittsburgh R. R. Co. To appropriate land.
- 5839 Cleveland City Railway Co. vs. City. Injunction and relief.

DEPARTMENT OF LAW.

- 5840 Cleveland Electric Railway Co. vs. City. Injunction and relief.
5756 Pennsylvania Company vs. City et al. Injunction.
5833 United States of America vs. Director of Public Works et al.
Injunction.

UNITED STATES DISTRICT COURT.

- 2108 Lulu Belle Gray vs. City. Libel. Damages caused by Fire Boat.
2227 Henderson vs. City. Libel. Damages caused by Fire Boat.

SUPREME COURT OF OHIO.

- 5551 C. G. Barkwill vs. City of Cleveland. Money only. Labor and
material furnished.
5527 City of Cleveland vs. Cleveland Electric Railway Co. Money only.
Broadway Paving.

CIRCUIT COURT OF CUYAHOGA COUNTY.

- 1230 Herrick et al. vs. City. Injunction and equitable relief.
1469 City vs. L. S. & M. S. Ry. Co. Injunction. Whiskey Island.
1992 State ex rel. Strimple vs. Bingham et al. Quo warranto. Sinking
fund Commission.
1993 State ex rel. Strimple vs. McBride et al. Quo warranto. Park
Board.
2274 City vs. Steffen. Personal injuries.

COMMON PLEAS COURT OF CUYAHOGA COUNTY.

- 44438 City vs. Flidner et al. Money only. On note.
44537 McCauley vs. Shields. Injunction and equitable relief.
47395 Board of Education vs. W. J. Hayes et al. Money only.
47598 Ohmenhauser vs. City. Injunction and equitable relief.
48149 French vs. City et al. Injunction. Bond street paving.
48314 Shields vs. Griswold et al. To subject lands.
51100 Granger vs. Britton. Money only.
51250 Southern vs. Creter et al. Money only.
51298 Taylor vs. Hubbard et al. Injunction and equitable relief.
52538 Bliss et al. vs. Hubbard et al. Injunction and relief.
50284 City vs. Gasser. For recovery of land. Highland avenue.
55003 Ware vs. Hubbard, Treasurer. Injunction.

- 53454 Goulder vs. City. Money and equitable relief.
- 53608 City vs. Leohner. Money only.
- 54751 National Fire Alarm Co. vs. City. Error to Probate Court.
- 54796 McCanley vs. Blee et al. Recovery of money only.
- 55320 Geary vs. Geary et al. Divorce and alimony. City garnisheed.
- 56265 Nagorski vs. City. Damages to property.
- 56598 Gallagher vs. City. Personal injuries.
- 56733 Ohmenhauser vs. City. Injunction.
- 56822 City vs. Lockerbie. Breach of contract.
- 57253 Katterson vs. Heege. Damages for false arrest.
- 57666 Eggers vs. City. Money only.
- 57767 Melchiors vs. City et al. Damages for personal injuries.
- 58193 Southern vs. Hubbard et al. Injunction and relief.
- 58346 Van Arnheim vs. Heide et al. False arrest.
- 58364 Bohm & Stuhr vs. Coben et al. Money and equitable relief.
- 58387 City vs. Shields. Breach of contract.
- 58521 Sylvester vs. City et al. Injunction and relief.
- 58618 Leiblang vs. Glauber et al. Money only. Personal injuries.
- 58927 Wilson vs. City. Money only. Personal injuries.
- 59126 Smith vs. City. Damage to land by overflow on Lorain street.
- 59351 Carter vs. Wittenberg. Foreclosure.
- 59576 Hubbel vs. Washington. False arrest.
- 59674 Cafferry vs. Connors. False arrest.
- 59762 Beckman vs. Neiberg. Accounting and to subject lands.
- 60173 In reboulevarding Euclid avenue.
- 60174 Mary Ann Greene vs. City et al. Money and equitable relief.
- 60256 McDermott vs. City. Money only.
- 60616 Schwyer vs. City. Money only. Personal injuries.
- 60846 Hyland vs. Carey. Money only.
- 61034 Patton vs. City. Money only.
- 61035 Sanders, Admx. vs. City et al. Money only.
- 61059 Corcoran vs. Reppenhagen. Money only.
- 61060 Corcoran vs. Reppenhagen. Money only.
- 61206 Berns vs. Ross. Money only.

- 61247 Seaborn vs. City. Money only.
61250 Mylett vs. Mylett. Alimony.
61406 Case vs. City. Money and foreclosure of lien.
61718 Sogolowitz vs. Cannell. To subject fund and equitable relief.
61859 McCauley vs. Biddlingmeyer. Money only.
61867 Dowdell vs. McGinty. Money only.
61983 Lawrence vs. Hubbard et al. Injunction and relief.
62087 Adler vs. Hubbard et al. Injunction and equitable relief.
62075 Ames vs. Hubbard et al. Injunction and relief.
62088 Synenberg vs. Duckwitz et al. Money only.
62133 Cooney vs. Campbell et al. Money only.
62275 English vs. Morgan et al. Money only.
62351 Waitt vs. City. Money only.
62425 Quinn vs. City. Money only.
62550 McHale vs. City. Money only.
62832 City vs. Commissioners of Cuyahoga County. Money only.
62906 Meek vs. Board of Education. Money only.
62921 Trunk vs. Krejci et al. Money only.
62922 Madigan vs. Krejci et al. Money only.
62969 Nahm vs. City. Money and abatement of nuisance.
63111 City vs. Commissioners of Cuyahoga County. Money only.
63156 Tweedie vs. City. Money only.
63190 City vs. Barrett Brewing Co. Money only.
63234 Marks vs. City. Money only.
63300 City vs. Ohmenhauser. Appropriation of land for Ackley avenue sewer.
63679 Everett vs. City. Money only.
63801 Singer by, etc. vs. Sanders et al. Money only.
63899 Leber vs. Kelley Island Lime & Trans. Co. et al. Money only.
63937 Flanagan et al. vs. Hubbard et al. Injunction and relief.
63949 Davis et al. vs. Hubbard et al. Injunction and relief.
64043 Preising vs. Palutze et al. Money only.
64188 Smith vs. City. Money only.
64220 Black, Admx. vs. Gawne et al. Money only.

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- 64221 Teolin, Admx. vs. Gawne et al. Money only.
- 64228 Corrigan, Admx. vs. Gawne et al. Money only.
- 64229 Mayer, Admx. vs. Gawne et al. Money only.
- 64243 McCauley, Admx. vs. Gawne et al. Money only.
- 64275 Gawne, Admr. vs. Gawne et al. Money only.
- 64326 Grabovski vs. City et al. Money only.
- 64417 Roth vs. Terwood et al. Money only.
- 64418 McFadden, Admx. vs. Gawne et al. Money only.
- 64438 Dilley vs. L. S. & M. S. Ry. Co. et al. Money only.
- 64450 Riddle vs. Riddle et al. Injunction and divorce. City garnisheed.
- 64464 Gilger, Admr. vs. Gawne et al. Money only.
- 64465 Gilger, Admr. vs. Gawne et al. Money only.
- 64467 Hanney, Admx. vs. Gawne et al. Money only.
- 64632 Esterle, Admx. vs. City et al. Money only.
- 64638 McConnell vs. May et al. Money only.
- 64770 Lavelle vs. City Money only.
- 64833 Gorman vs. City. Money only.
- 64956 Sturznickel vs. Yanders et al. Money only.
- 64976 Wachs, Admx. vs. Gawne et al. Money only.
- 65056 O'Brien vs. City. Money only.
- 65065 Tucker, Admr. vs. Gawne et al. Money only.
- 65208 Decker vs. City. Money only.
- 65225 Hiller vs. City. Money only.
- 65226 Engle vs. City. Money only.
- 65281 Colburn vs. Colburn et al. Divorce and alimony.
- 65424 City vs. Wooldridge. Appropriation.
- 65502 Masterson vs. City. Money only.
- 65535 Treas. of Cuyahoga Co. vs. Hill et al. To subject lands.
- 65556 Boss vs. City. Money only.

INSOLVENCY COURT OF CUYAHOGA COUNTY.

APPEAL DOCKET.

- 1058 McMahon vs. Board of Education. Labor and material.
- 1128 Claflin Paving and Contracting Co. vs. City. Attested account.

DEPARTMENT OF LAW.

APPROPRIATION DOCKET.

- 32 City vs. Forest City Wire & Iron Co. et al. Land for sewer.
- 282 City vs. Bernard et al. Land for Edgewood Place.
- 278 City vs. Boardman et al. Land for Center street bridge.
- 284 Carter vs. City. To compel appropriation of land for Garfield Park.

SUMMARY.

CASES PENDING JANUARY 1, 1898.

United States Circuit Court of Appeals.....	2
Circuit Court of the United States.....	15
District Court of the United States.....	1
Supreme Court of Ohio.....	7
Circuit Court of Cuyahoga County.....	12
Common Pleas Court of Cuyahoga County.....	113
Insolvency Court of Cuyahoga County.....	4
	<hr/>
	154

CASES BROUGHT DURING THE YEAR ENDING DECEMBER 31, 1898.

Circuit Court of the United States.....	8
District Court of the United States.....	1
Supreme Court of Ohio.....	3
Circuit Court of Cuyahoga County.....	5
Common Pleas Court of Cuyahoga County.....	71
Insolvency Court of Cuyahoga County.....	17
Justice Courts.....	46
	<hr/>
	151

CASES DISPOSED OF DURING THE YEAR ENDING DECEMBER 31, 1898.

United States Circuit Court of Appeals.....	2
Circuit Court of the United States.....	1
Supreme Court of Ohio.....	8
Circuit Court of Cuyahoga County.....	12
Common Pleas Court of Cuyahoga County.....	76
Insolvency Court of Cuyahoga County.....	15
Justice Courts.....	45
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	159

CASES PENDING JANUARY 1, 1899.

Circuit Court of the United States.....	22
District Court of the United States.....	2
Supreme Court of Ohio.....	2
Circuit Court of Cuyahoga County.....	5
Common Pleas Court of Cuyahoga County.....	108
Insolvency Court of Cuyahoga County.....	6
Justice Courts.....	1
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	146

Pleadings filed and other court business transacted during
the year ending December 31, 1898:

Affidavits.....	167
Applications to assess compensation.....	17
Amended petitions.....	3
Answers.....	76
Briefs.....	41
Bills of Exceptions.....	6
Demurrers.....	24
Journal Entries.....	22
Motions.....	42
Legal Notices.....	51
Petitions.....	33
Petitions in Error.....	12
Replies.....	8
Releases.....	49

The following schedule shows the nature and number of the various papers referred to and reported upon by this department, for the year ending December 31, 1898:

Agreements	14
Applications.....	33
Abstracts.....	72
Bonds, Official.....	26
Bonds, Sewer Builders.....	105
Bonds, Plumbers.....	151
Bonds, Miscellaneous.....	53
Contracts.....	298
Claims.....	73
Communications.....	53
Deeds.....	63
Leases.....	330
Miscellaneous Papers.....	56
Ordinances.....	485
Proposals.....	16
Petitions.....	34
Plats.....	32
Pawnbrokers' Applications.....	17
Resolutions.....	298
Releases.....	5
Remonstrances.....	4
Waivers.....	37
	<hr/>
	2,255

The following schedule shows the number and nature of papers drawn up by this department but not filed in court, during the year ending December 31, 1898:

Agreements	26
Applications.....	7
Bonds.....	31
Communications.....	321
Deeds.....	60
Leases.....	2
Miscellaneous Papers.....	73
Opinions.....	42
Ordinances	85
Proposals	5
Releases.....	41
Resolutions.....	124
Petitions.....	15
Waivers.. ..	37
Total.....	<hr/> 869

MONEY PAID OUT IN JUDGMENTS AND SETTLEMENT
OF CASES.

Amount Claimed.		Received.
\$ 10,000 00	Tuttle vs. City.....	\$ 00
10,000 00	Molt vs. City et al.....	5,000 00
25,000 00	Martens vs. City.....	200 00
950 00	Harrison vs. City.....	00
1,000 00	Griffiths vs. City.....	00
10,000 00	Steele vs. City.....	00
20,000 00	Baldt vs. City.....	5,925 00
139,692 00	Brickell vs. City.....	10 00
2,500 00	Meek vs. City.....	00
5,000 00	Weitzel vs. City.....	00
15,000 00	Gorman vs. City.....	3,000 00
1,500 00	Ludwig vs. City.....	300 00
600 00	Sunderland vs. City.....	00
15,300 00	Leferink vs. City.....	100 00
10,000 00	Young vs. City.....	150 00
15,000 00	Collins vs. City.....	5,000 00
7,118 21	The Hawgood & Avery Trans. Co. vs. City.....	7,118 21
2,500 00	Barth vs. Wachs et al.....	00
10,000 00	Leusch vs. City et al.....	00
10,000 00	Ralston vs. Morgan et al.....	75 00
5,000 00	Hillman vs. Shibley.....	00
25,000 00	Roundey vs. City.....	200 00
1,000 00	McMeans vs. City.....	200 00
50,000 00	Long vs. City et al.....	1,750 00
335 00	Mitchell et al vs. City.....	300 00
500 00	Steiner vs. Moses.....	30 00
2,000 00	McCarty vs. Gavin.....	00
3,000 00	Bissett vs. City.....	300 00
5,000 00	McKee vs. City.....	200 00
5,000 00	Richards vs. City.....	200 00
1,650 00	Fire Association vs. City et al.....	00
5,000 00	Wickline vs. Seeley.....	00
10,000 00	Kinney vs. City.....	00
10,000 00	Kemmett vs. Campbell et al.....	00
20,200 00	Cavanaugh vs. City.....	50 00
5,000 00	Franz vs. City.....	00
5,000 00	Bissett vs. Ross.....	00
5,000 00	Witt vs. Woelke.....	00
387 20	Braun vs. City.....	00
10,300 00	Kushner vs. City.....	00
5,000 00	Welsh vs. City.....	300 00
15,000 00	Hughes vs. City.....	500 00
5,000 00	Smith vs. City.....	125 00
5,000 00	Gorman vs. City.....	00
5,000 00	Kelley vs. City.....	00
20,000 00	Hooper vs. City.....	00
10,000 00	Kemmett vs. City.....	00
<hr/> \$559,032 41		<hr/> \$31,033 21

The following is a summary of the business of the Law Department for the year ending December 31, 1898:

Cases pending in the various courts, January 1, 1898.....	154
Cases brought by or against the City during the year ending December 31, 1898.....	151
Cases disposed of during the year ending December 31, 1898.....	159
Cases pending January 1, 1899.....	146
Pleadings and papers prepared and filed in court.....	551
Statements taken not filed.....	169
Papers prepared and approved	3,124

DEPARTMENT

OF

CHARITIES AND CORRECTION.

Department of Charities and Correction.

OFFICERS.

WILLIAM J. AKERS, Director.

HAROLD A. BUSHEA, Secretary.

W. K. RICKSECKER, Superintendent of Infirmary.

PHIL. H. DORN, Superintendent of House of Correction.

C. WAGNER, Supervisor of Cemeteries.

Director's Report.

CLEVELAND, O., January 1st, 1899

HON. ROBERT E. MCKISSON, *Mayor*.

SIR:—Accompanying this I hand you the report of the Department of Charities and Correction for the year ending December 31, 1898. In compiling this report it has been my object to reduce, as far as possible, the number of tables which have no direct bearing upon the actual subject matter therein contained.

Your attention is respectfully called to the financial statement of the department, which shows the cash remaining in the hands of the City Treasurer December 31, 1898; to the credit of the department to have been \$40,094.96. The earnings of the department during the year amount to \$127,755.76, which was more than sufficient to pay the actual operating expenses (not including fixed charges), which amounted to \$126,332.24. There was expended during the year for permanent improvements the sum of \$38,220.74. This amount includes the expenditures for the improvement of West Park Cemetery, the construction of a new Detention Hospital, and payments made on account of unfinished contracts for the construction of the Children's Hospital, as well as an item of \$3,000 for the reconstruction of a culvert carrying Kingsbury Run across the Workhouse property.

By reference to the tables relating to the division of the Infirmary, it will be seen that we were able during the past year to reduce the operating expenses of both the Hospital and Infirmary, as well as the disbursement which is classified under the head of Outdoor Relief. It has not been our object to curtail or deprive the inmates of the city's charitable insti-

tutions in any manner of things that were necessary to their comfort and well being; but, on the other hand, we have added to their allowances and conveniences in many different ways. The saving has been brought about by enforcing business methods in all departments and by keeping a close check and watch on the purchasing and issuing of supplies.

In the matter of the Outdoor Relief, it is my pleasure to be able to report that on account of the extensive public improvements made during the past year, which has furnished labor to a class who are dependent upon work of this character for their living, the demands on this department have not been so great. Coupled with this we have exercised the utmost diligence and care in our investigations, requiring, as during the previous year a return in labor from some able-bodied member of the family for the assistance rendered when possible and practicable.

The earnings of the Division of Cemeteries show a slight reduction over the year 1897. Under this head of earnings I have not included an item of \$15,000 which was paid by the Division of Infirmary to the Division of Cemeteries on account of the exchange of the Lorain Heights Cemetery site (which was decided unsuited for cemetery purposes) for the old Pest House farm, now known as West Park Cemetery. In this connection I wish to say that I find our judgment to have been well founded in making this exchange. As the actual work progresses it is seen that West Park Cemetery will be the most beautiful and picturesque burial spot in the city. Contracts for the completion of that portion of the cemetery under improvement have all been let, including the iron fence for the Ridge road frontage, and it only requires a few weeks of settled weather to complete the work in hand.

The Water Works Department have extended their main down Ridge road, so that a plentiful supply of water for the cemetery is assured. The County Commissioners have let the contract for the paving of Ridge road from Dennison avenue to the cemetery, which with the completion of Ridge avenue paving will furnish a paved roadway from all parts of the city to the cemetery gates.

The report of the House of Correction for the year 1898 is still more gratifying than the report of the same institution

for 1897. It is a matter of pride with the department to be able to point to the splendid record made by the House of Correction during the past four years, and particularly to the two years just ended, when it was possible to conduct the institution without asking for any tax levy or for any transfer from other funds to the House of Correction fund. On the other hand, the House of Correction has been able during the past year to loan the Division of Cemeteries for the construction of West Park Cemetery the sum of \$6,000 from their surplus earnings, without in any way impairing its financial standing. This is the first time in the history of this institution that any money has been transferred or loaned from the House of Correction funds; but in years gone by, prior to your administration, it was the annual custom, in addition to levying a tax for the benefit of the institution, to transfer from other funds to the House of Correction fund.

In concluding my explanation of the financial statement, I wish to call your attention to the fact that no tax levies have been made for the benefit of any division of this department for the past two years, and that none are asked for or contemplated for the year 1899. Indeed, it is my opinion that unless some unforeseen contingency arises, such as the destruction by fire of some of our institutions, with careful business management it will not be necessary to ask for a tax levy for some years to come.

In addition to the foregoing statement, which relates purely to the actual business transactions of the department, I wish to devote a little space to what we have tried to do, and what in my judgment should be done to lessen the amount of existing pauperism and crime. It seems to me to be as much a part of the duty of those connected with the administration of this department to endeavor to correct these evils, as it is to manage and provide for the institution wherein their product is housed. It is with that idea in view that I have endeavored to push forward to completion the Children's Hospital as a means of reducing pauperism. With an institution of this character children of indigent parents can be properly cared for in time of sickness or accident, nursed back to health and strength, thereby lessening the burden placed on the parents of the child, as well as sending the sufferer back in the

world sound in health and straight in limb. It is unfortunate that the city of Cleveland has been for so many years without an institution of this kind. Unquestionably a sick child is a drag on the family of those in even moderate means; how much more so does it affect a family where the mother is oft-times the sole wage earner and support? It can readily be seen that with continued illness on the part of a member of a family of this character it would in time reduce them to pauperism. This institution will relieve the mother of the care and support of her child during this time, and when it is returned to her, it will be in a condition to be a joy and help, instead of a worry and source of expense. It is with this same view to lessening the necessity for the dispensing of charity that I have laid so much stress on the necessity for rigid investigation into the condition of those applying for assistance to the Outdoor Relief department. We have made this character of relief of as temporary a nature as possible, and endeavored by counsel and advice to assist these unfortunates into a condition whereby they could assist themselves.

Try as hard as you may to prevent it, the Outdoor Relief department continues and always will continue a strong agent in the making of paupers. We have on our books to-day families who have been assisted for a number of years past, and under the existing conditions in future years we will continue to assist members of these same families. The instinct of obtaining something for nothing is very strong in some members of the human race, and it is no imagery of speech to say that the Outdoor Relief of the city of Cleveland has been handed down as a legacy from one generation to another in some of the families whom we are now assisting. This is where I think the head of this department and all others interested in the distribution of charity, whether public or private, should devote their greatest thought and labor. It is the product of the pensioners on public and private charities that fill the almshouses, asylums, correctional and penal institutions of the state and country. While poverty and crime do not necessarily go hand in hand, at the same time one begets the other, and both are largely due to lax administration and improper conception of the province of those engaged in charitable work. Let us look at this matter in its broadest

light, endeavoring to secure the greatest good for the greatest number, and enforce such regulations, provide such restrictions as are necessary to prevent the obtaining of charity only as a temporary means and until the unfortunates are able to care and provide for themselves, and then make them do it. You will not then be setting daily an example before the rising generation which will have a tendency to destroy their self-respect and teach them that it is possible for man to live other than in the sweat of his brow.

A feature of this work which I have called attention to in the past, and which I again wish to bring before you, is the necessity for the enforcement of the Cumulative Sentence Law. This law has been on our statute books for some years, but up to the present time has not been put into execution. It only lacks its enforcement to make it the means of working a vast amount of good, both in reducing pauperism and lessening vice. By enforcing the provisions of this law poverty will be lessened in this city, and it will not only enable a man to provide some means for the support of his family but he will be placed in confinement for a sufficient period to make him a better citizen, and when he goes forth he will be a better man. It will also be the means of making provision for his wife and children, who otherwise might be forced into pauperism, vice and degradation. The enforcement of this law should be taken up and the matter agitated by every person in the city of Cleveland who is interested in charitable work. It is also a plain business proposition and as such should meet with the support of every taxpayer.

I sincerely hope that during the coming year this matter will receive attention and the law, which was enacted at the suggestion and request of many of the charitable workers of this city, be placed in operation not only by this city but by the state.

What I consider the most important of all provisions to be made for the care of our city's unfortunates is to establish a school for incorrigible children. Let one spend a day in the police court and he will be convinced of the necessity for this institution. Children of tender years are brought before the police judge daily for the commission of some minor offense only to be released by him, knowing as he does that to

sentence them to imprisonment in any of the city's correctional institutions means daily contact for the infants with hardened criminals and those steeped in vice, and who are only too ready to teach a new beginner in their craft. The time is now opportune for the city to possess such an institution. The land, admirably located for this purpose, is already in its possession, and an expenditure not to exceed \$35,000 is all that will be required to place it in operation. This necessity is not only recognized but demanded by every judge in Cuyahoga county, police officials, the clergy, and the public at large. It is something we owe to the youth of our city and is a wise provision for its future welfare and prosperity to provide a refuge not only for the vicious but those requiring a firmer hand and greater restraint than can be placed upon them at home or in the public schools.

In my work during the past year I have been greatly aided by my fellow members of the Board of Control, members of the City Council, and the officers and members of the different private charitable organizations, in all of whom I have found valuable counsellors and aids in the discharge of my duties, and to whom I wish to express my thanks for their courtesy and kindness.

To you, Mr. Mayor, I wish to make such acknowledgment as lies within my power for not only the unwavering support you have given me, but for the deep interest you have manifested at all times in the workings of the department and regard for the welfare of the inmates of the different institutions, as well as those who have subsisted upon the municipal charities and for the efforts you have made in securing beneficial legislation in their behalf. For all this I thank you sincerely.

Yours respectfully,

WM. J. AKERS,
Director of Charities and Correction.

FINANCIAL STATEMENT. —1898.

RECEIPTS.

CASH ON HAND JANUARY 1, 1898.

Division of Infirmary.....	\$ 21,403 65
Division of House of Correction.....	24,319 43
Division of Cemeteries.....	5,882 43
Total.....	\$ 51,605 51

EARNINGS.

By Division of Infirmary.....	\$ 24,495 88
By Division of House of Correction.....	77,150 82
By Division of Cemeteries.....	26,109 06
Total.....	\$127,755 76

TRANSFER.

Division of Cemeteries.....	\$.....
House of Correction.....	6,000 00
Total.....	\$ 6,000 00

TAXES.

Division of Infirmary's proportion of Dow and Cigarette Tax....	\$116,679 31
Total.....	\$116,679 31

SALE OF LAND.

By Division of Cemeteries.....	\$ 15,000 00
Total.....	\$ 15,000 00
	\$317,040 58

FINANCIAL STATEMENT 1898.—Continued.

DISBURSEMENTS.	
FIXED CHARGES.	
Division of Cemeteries	\$ 6,532 00
Division of House of Correction.....	17,903 76
Division of Infirmary.....	27,254 34
Total.....	\$ 51,690 10
SUPPLIES.	
Division of Cemeteries.....	\$ 16,295 90
Division of House of Correction.....	20,958 12
Division of Infirmary.....	89,068 13
Total.....	126,332 24
Manufacturing Division of House of Correction.....	23,253 76
TAXES.	
Division of Cemeteries.....	1,369 97
LAND.	
Division of Cemeteries.....	\$ 5,517 00
Division of Infirmary.	17,300 00
Total.....	22,817 00
PERMANENT IMPROVEMENTS.	
Division of Cemeteries.....	\$ 21,872 94
Division of Infirmary.....	13,347 80
Division of House of Correction	3,000 00
Total.....	38,220 74
FURNITURE AND FIXTURES.	
Division of Cemeteries	\$ 32 47
Division of Infirmary.....	2,002 87
Division of House of Correction.....	226 47
Total.....	2,261 81
CASH ON HAND DEC. 31st, 1898.	
	\$270,945 62
Division of Cemeteries.....	\$ 1,381 12
Division of House of Correction	25,128 14
Division of Infirmary.....	13,585 70
Total.....	\$ 40,094 96
TRANSFER.	
Division of House of Correction to Division of Cemeteries.....	6,000 00
Total Disbursements.....	\$317,040 58

ASSETS OF THE DEPARTMENT.

CASH.	
To Cr. of Division of Cemeteries.....	\$ 1,381 12
To Cr. of Division of House of Correction.....	26,128 14
To Cr. of Division of Infirmary	13,585 70
Total.....	\$ 40,094 96
REAL ESTATE AND BUILDINGS.	
To Cr. of Division of Cemeteries.....	\$276,793 39
To Cr. of Division of House of Correction.....	313,912 99
To Cr. of Division of Infirmary	673,384 38
Total.....	1,264,090 76
INSTITUTION FURNITURE AND FIXTURES.	
To Cr. of Division of Cemeteries.....	\$ 10,791 67
To Cr. of Division of House of Correction.....	34,998 67
To Cr. of Division of Infirmary.	29,027 74
To Cr. of Division of Office Furniture	317 50
Total.....	75,135 58
INVENTORY.	
To Cr. of House of Correction, Raw and Manufactured Stock.....	\$ 58,012 49
To Cr. of Division of Infirmary Supplies on hand, Infirmary and Hospital.....	2,488 53
Total.....	60,501 02
ACCOUNTS RECEIVABLE.	
To Cr. of Division of House of Correction.. ..	18,732 34
To Cr. of Division of Cemeteries.....	

Board of County Visitors.

GENERAL JAMES BARNETT, *Chairman.*

GEORGE T. CHAPMAN,

JUDGE E. BLANDIN,

MRS. D. E. LESLIE,

MRS. S. JOSEPH,

MRS. W. J. SHEPARD, *Secretary.*

DIVISION OF INFIRMARY.

W. K. RICKSECKERSuperintendent.

ED. BATTBookkeeper.

Report of the Superintendent.

HON. W. J. AKERS,

Director of Charities and Correction.

DEAR SIR:—Enclosed please find my report for the year
1898.

Respectfully,

W. K. RICKSECKER,

Superintendent of Infirmary.

TABLE NO. 1.

INFIRMARY.

RECEIPTS AND EXPENDITURES FOR THE YEAR 1898.

RECEIPTS.		
Cash on hand January 1, 1898.....	\$ 21,403 65	
Received from Dow Tax.....	115,424 18	
" " Cigarette Tax.....	1,255 13	
" " sale of Land		
" " Cuyahoga County for Board of Poor.....	16,572 90	
" " Board Non-Resident Poor.....	4,179 34	
" " Sale of Produce.....	846 04	
" for Transportation.....		
" " Burials.....	2,897 60	
Total to be accounted for.....		\$ 162,578 84
EXPENDITURES.		
For Supervision and Attendance	\$ 27,254 34	
" Hospital and Infirmary Furniture	1,542 02	
" Implements.....	35 25	
" Horses, Wagons, Harness, etc.....	425 60	
" Office Supplies and Stationery	649 88	
" Hospital and Infirmary Supplies.	57,495 05	
" Farm Supplies.....	237 24	
" Care of Harness, Repair of Wagons.....	860 39	
" Out-Door Relief Supplies	22,724 15	
" " " Transportation.....	1,713 99	
" " " Burials.....	1,343 91	
" Repairs	3,811 19	
" Contingent.....	202 28	
" Land	17,300 00	
" Buildings.....	13,347 80	
" Grading and Paving.....		
Total expenditures	\$ 148,993 14	
Cash on hand December 31, 1898.....	13,585 70	\$ 162,578 84

TABLE NO. 2.

OUT-DOOR RELIEF.

NUMBER OF FAMILIES HELPED DURING 1898.

Married.....	1,428
Widows.....	564
Widowers.....	15
Single.....	38
Grass Widows.....	102
Children included in families.....	6,441
Total.....	8,588

TABLE NO. 3.
OUT-DOOR RELIEF.
EXPENDITURES.

Salaries of Investigators and Store-keepers and Coal.....	\$ 4,940 50
Paid for Coal, 5,256 Tons.....	9,881 28
" " Shoes, 2,933 Pairs.....	2,639 70
" " Groceries and other Supplies.....	10,203 17
" " Burials and Interments.....	1,343 96
Total amount expended.....	\$ 30,722 26

TABLE NO 4.
OUT-DOOR RELIEF.
SUPPLIES ISSUED DURING THE YEAR 1898.

ARTICLE.	POUNDS.
Flour	273,368
Corn Meal.....	4,716
Peas.....	11,021
Beans.....	28,109
Tea.....	7,004
Coffee.....	6,890
Rice.....	20,206
Oat Meal.....	13,910
Sugar.....	19,679
Barley.....	7,306
Soap.....	15,489
Total	407,698
Number of issues of Groceries.....	20,593
Number of Packages	123,813
Average per day.....	65 $\frac{1}{2}$

TABLE No. 5.
OUT-DOOR RELIEF.
AMOUNT EXPENDED DURING THE YEAR 1898
FOR SUPPLIES.

MONTH.	AMOUNT.
January.....	\$ 3,886 78
February.....	4,399 31
March.....	3,646 32
April.....	1,751 14
May.....	1,679 72
June.....	964 62
July.....	517 34
August.....	778 33
September.....	434 14
October.....	990 25
November.....	1,823 34
December.....	1,802 66
Total.....	\$ 22,724 15

TABLE No. 6.

OUT-DOOR RELIEF.

NATIVITIES OF FAMILIES RELIEVED DURING 1898.

Austria.....	125
France,	2
Switzerland.....	9
Saxony	3
England.....	110
Ireland.....	420
United States.....	578
Canada.....	45
Sweden.....	5
Holland	11
Poland	140
Bohemia.....	129
Norway	2
Arabia.....	1
Italy.....	30
Hungary.....	40
Wales.....	8
Denmark	0
Slavonia.....	6
Scotland.....	7
Russia.....	10
Germany	461
Syria	2
Isle of Man.....	1
Prussia.....	2
Total.....	2,147

TABLE NO. 7.
COMPARATIVE TABLE OF COST OF MAINTENANCE
1897 AND 1898.

1897.	
Average daily population.....	753
Total cost of maintenance supplies for year.....	\$65,031 41
Fixed charges (salaries and attendance).....	21,654 29
Total cost.....	\$86,685 70
Average per capita cost of maintenance per annum.....	\$ 86 36
" " " " " " and attendance per annum.....	115 12
1898.	
Average daily population.....	759
Total cost of maintenance supplies for year.....	\$59,494 84
Fixed charges (salaries and attendance).....	22,313 84
Total cost.....	\$81,808 68
Average per capita cost of maintenance per annum	\$ 78 50
" " " " " " and attendance per annum.....	107 78

TABLE NO. 8.

INVENTORY OF THE STORE ROOMS.

Dry goods, clothing, etc.....	\$ 1,139 22
Groceries, provisions, etc.....	846 43
Miscellaneous supplies.....	417 88
One barrel of spirits.....	85 00
Total.....	\$ 2,488 53

TABLE No. 9.

EXTRAORDINARY EXPENDITURES.

New furniture for Detention Hospital.....	\$ 1,065 50
Hospital and Infirmary furniture.....	476 52
Horses, wagons, harness	425 00
Land for Detention Hospital	2,300 00
Balance on Lorain Heights farm.....	15,000 00
Detention Hospital.....	6,710 34
Children's Hospital.....	6,637 46
Total.....	\$32,615 42

TABLE NO. 10.
BAKER, 1898.

Number loaves bread baked during the year.....	110,395
Number dozen of biscuits baked during the year	2,336
Number loaves ginger bread baked during the year.....	4,128

TABLE NO. 10—Continued.

NUMBER PIECES MADE BY SEAMSTRESS AND
ASSISTANTS DURING THE YEAR 1898.

Skirts.....	1,313
Overshirts.....	463
Overalls	91
Straight Jackets.....	29
Pants.....	26
Dresses	641
Chemise.....	414
Night gowns.....	318
Skirts	718
Aprons	203
Waists	38
Drawers.....	4
Sheets.....	1,282
Pillow cases.....	1,606
Pillow ticks.....	264
Pillow shams	12
Bed ticks.....	106
Comforts	6
Towels	2,419
Table cloths	11
Napkins.....	166
Suspenders	1,541
Coffee bags	6
Bakers' caps.....	6
Total.....	11,561

TABLE NO. 11.

INMATES—HOW EMPLOYED.

MIDDLE DEPARTMENT—INDIGENT MALES.

At assisting firemen	2
" blacksmith shop.....	2
" bakery	2
" butcher shop	1
" barber shop and bath rooms.....	7
" carrying meals to female department.....	2
" caring for grounds and lawn of institution.....	8
" caring for basement of institution.....	7
" caring for water tanks and closets.....	2
" cleaning halls and offices of institution	12
" carpentering	2
" caring for sleeping and living rooms.....	20
" caring for disabled and infirm inmates	3
" dining room, waiters.....	17
" greenhouse	1
" gardening.....	2
" hospital.....	20
" hoisting ashes and caring for fires	3
" laundry	18
" light chores.....	63
" milk and butter room.....	2
" main kitchen, as meat cutters.....	4
" " " preparing food	6
" " " general work	3
" painting	3
" swill house.....	1
" shoemaking.....	2
" tailoring.....	1
" teaming	3
" window cleaning.....	2
" wood yard	6
" offices, kitchen, general work.....	3
Total number employed.....	230
Number of inmates not employed (disabled).....	52
Total.....	282

TABLE No. 11—Continued.

MIDDLE DEPARTMENT—INDIGENT FEMALES.

Cleaning	6
Dining room.....	6
Laundry	4
Sewing and mending	25
Total number employed.....	41
Total number of inmates unable to perform labor	40
Total.....	81

MALE INSANE DEPARTMENT.

Number work on farm.....	18
Number work in boiler house.....	3
Number work in bakery.....	2
Number work in garden.....	1
Number waiters in dining room.....	18
Number sweeping and making beds.....	18
Number cleaning windows.....	3
Number painting	2
Number trusty messengers.....	2
Total number employed	67
Total number of patients unable to perform any labor	77
Total	144

TABLE No. 11—Concluded.

FEMALE INSANE DEPARTMENT.

Number at work in wards	26
Number at work in laundry	8
Number at work in dining room	6
Number at work sewing in wards.....	6
Number at work in kitchen.....	2
Number at work in Middle Department	2
Number at work sewing in rooms	1
Number at work as trusty messengers.....	2
Total number employed	58
Total number of patients unable to perform labor.....	70
Total.....	128

TABLE NO. 12.

ANNUAL REPORT AND MONTHLY REPORT OF
INMATES FOR 1898.

On Hand. 1898.	Middle Dept.		Insane Dept.		Hospital Dept.		No. Males.	No. Females.	Total.
	Male.	Fem.	Male.	Fem.	Male.	Fem.			
January 1st.....	258	84	164	133	86	66	508	283	791
Received.....	22	9	3	4	49	26	74	39	113
Births.....					1	2	1	2	3
Discharged.....	10	2	2	6	45	17	57	25	82
Deaths.....					6	4	6	4	10
February 1st.....	270	91	165	131	85	73	520	295	815
Received.....	15	3	2	4	25	29	42	36	78
Births.....					3		3		3
Discharged.....	9	2	3	5	19	23	29	30	59
Deaths.....					9	8	9	8	17
March 1st.....	278	92	164	130	85	71	527	293	820
Received.....	17	1	5	1	43	27	65	29	94
Births.....					2		2		2
Discharged.....	43	5	8	3	46	26	97	34	131
Deaths.....					9	6	9	6	15
April 1st.....	252	88	161	128	75	66	483	282	770
Received.....	15	2	4	2	54	23	73	27	100
Births.....					2	1	2	1	3
Discharged.....	25	3	8		48	21	81	24	105
Deaths.....					13	5	13	5	18
May 1st.....	242	87	157	130	70	64	489	281	750
Received.....	12	3	7	3	36	26	55	32	87
Births.....					2	2	2	2	4
Discharged.....	25	4	3	4	36	18	64	26	90
Deaths.....					12	9	12	9	21
June 1st.....	229	86	161	129	60	65	450	280	730
Received.....	14	3	6	2	34	31	54	36	90
Births.....					1	1	1	1	2
Discharged.....	15	3	6	5	22	26	43	34	77
Deaths.....					5	2	5	2	7

TABLE No. 12—Concluded.

ANNUAL REPORT AND MONTHLY REPORT OF
INMATES FOR 1898.

On Hand. 1898.	Middle Dept.		Insane Dept.		Hospital Dept.		No. Males.	No. Females.	Total.
	Male.	Fem.	Male.	Fem.	Male.	Fem.			
July 1st	228	86	161	126	68	69	457	281	738
Received	14	8	4	2	50	39	68	49	117
Births						3		3	3
Discharged	16	8	7	1	36	34	59	43	102
Deaths					13	7	13	7	20
August 1st	226	86	158	127	69	70	453	283	736
Received	9	8	4	3	57	31	70	42	112
Births						3		3	3
Discharged	9	9	3	7	38	32	50	48	98
Deaths					11	5	11	5	16
September 1st	226	85	159	123	77	67	462	275	737
Received	11	7	2	2	66	22	79	31	110
Births						1		1	1
Discharged	6	3	6	3	45	25	57	31	88
Deaths					10	5	10	5	15
October 1st	231	89	155	122	85	60	474	271	745
Received	17	3	4	3	35	23	56	29	85
Births					1	1	1	1	2
Discharged	4	2	8	2	34	21	46	25	71
Deaths					6	1	6	1	7
November 1st	244	90	151	123	84	62	479	275	754
Received	29		2	2	47	21	78	23	101
Births					1		1		1
Discharged	7	4	9	1	33	19	49	24	73
Deaths					16	3	16	3	19
December 1st	266	86	144	124	83	61	493	271	764
Received	22	4	6	2	63	35	91	41	132
Births					2		2		2
Discharged	6	9	6	3	43	13	55	25	80
Deaths					13	8	13	8	21

TABLE NO. 13.
NUMBER RECEIVED DURING THE YEAR OF 1898,
BY MONTHS.

Months.	Males.	Females.	Total.
January	74	39	113
February	42	36	78
March	65	29	94
April	73	27	100
May	55	32	87
June	54	36	90
July	68	49	117
August	70	42	112
September	79	31	110
October	56	29	85
November	78	23	101
December	91	41	132
Total	805	414	1,219

TABLE NO. 14.
NUMBER OF BIRTHS DURING THE YEAR OF 1898,
BY MONTHS.

Months.	Males.	Females.	Total.
January	1	2	3
February	3		3
March	2		2
April	2	1	3
May	2	2	4
June	1	1	2
July		3	3
August		3	3
September.....		1	1
October.....	1	1	2
November	1		1
December	2		2
Total	15	14	29

TABLE NO. 15.
NUMBER OF DEATHS DURING THE YEAR OF 1898,
BY MONTHS.

Months.	Males.	Females.	Total.
January	6	4	10
February	9	8	17
March	9	6	15
April	13	5	18
May	12	9	21
June	5	2	7
July	13	7	20
August	11	5	16
September	10	5	15
October	6	1	7
November	16	3	19
December	13	8	21
Total	123	63	186

TABLE NO. 16.
NUMBER DISCHARGED DURING THE YEAR OF 1898,
BY MONTHS.

Months.	Males.	Females.	Total.
January	57	25	82
February	29	30	59
March	97	34	131
April	81	24	105
May	64	26	90
June	43	34	77
July	59	43	102
August	50	48	98
September	57	31	88
October	46	25	71
November	49	24	73
December	55	25	80
Total	687	369	1,056

TABLE NO. 17.
NATIONALITIES.

Nation.	Insane.		Hospital.		Middle House.		Total.
	Male.	Female.	Male.	Female.	Male.	Female.	
United States.....	45	40	26	26	64	10	211
Germany	45	39	9	8	70	15	186
England	8	1	7	3	15	8	37
Scotland	2		1		5	4	12
Bohemia.....	9	4	4	2	10		29
Sweden	2		3		1		6
Wales.....				1	3		4
Hungary	2	3	1	1	2		9
Austria			1	2	2		5
France	1				2		3
Russia			2				2
Holland	1				2		3
Canada	1	1		1	2		5
Ireland	27	30	30	26	90	42	245
Switzerland.....	2	2	3	1	3		11
Poland.....	1		1	1			3
Denmark					1		1
Italy.....			2		1		3
Arabia	1				1		2
Africa.....							
Spain							
Total.....	142	120	90	72	274	79	777

DIVISION OF INFIRMARY.

983

TABLE No. 18.
DAILY AVERAGES FOR EACH MONTH FOR THE YEAR 1898.

Months.	Insane.		Hospital.		Middle Department.		Total.	Daily Averages.
	Male.	Female.	Male.	Female.	Male.	Female.		
January	5,106	4,102	2,536	2,136	8,184	2,746	24,810	800
February	4,631	3,686	2,351	2,006	7,646	2,564	22,883	817
March	5,063	4,002	2,554	2,246	8,256	2,793	24,904	803
April	4,734	3,855	2,084	1,951	7,408	2,626	23,668	755
May	4,912	4,049	1,926	2,011	7,310	2,690	22,897	788
June	4,796	3,813	1,836	1,988	6,731	2,611	21,753	726
July	4,987	3,920	2,114	2,154	6,983	2,621	22,779	784
August	4,936	3,853	2,261	2,192	6,990	2,629	22,831	786
September	4,771	3,672	2,318	1,966	6,829	2,592	22,047	734
October	4,769	3,800	2,662	1,967	7,378	2,771	23,367	753
November	4,442	3,731	2,522	1,872	7,662	2,646	22,875	762
December	4,477	3,928	2,668	2,175	7,560	2,621	23,354	753
Total	57,613	46,311	27,876	24,542	88,907	31,910	277,168	

Daily average for the year 1898..... 759
Daily average for the year 1897..... 763

Increase, 1898 over 1897..... 6

TABLE NO. 19.
DAILY AVERAGES, MONTHLY AND YEARLY TOTALS.

	Insane.		Hospital.		Middle.		Total.	Increase.
	Male.	Female.	Male.	Female.	Male.	Female.		
Totals for the year	57,613	46,311	27,875	24,542	88,907	31,910	277,168	2,157
Daily averages	157	128	76	68	244	88	759	6

TABLE No. 20.
RECAPITULATION.

	Male.	Female.	Total.
On hand January 1, 1898.....	508	283	
Received during the year.....	805	414	
Births during the year	15	14	
Total to be accounted for	1,328	711	2,039
Discharged during the year.....	687	369	
Deaths during the year.....	123	63	
On hand January 1, 1899..	518	279	
Total	1,328	711	2,039

TABLE NO. 21.

INFIRMARY AMBULANCE RUNS, 1898.

MONTHS.	RUNS.
January	25
February	24
March	22
April	22
May	14
June	20
July	26
August	30
September	35
October	19
November	21
December	31
Total Runs	289

Average Runs, $6\frac{1}{4}$ miles.

Report of the Medical Staff of the City Hospital.

HON. WM. J. AKERS,

Director of Charities and Correction.

DEAR SIR:—In this the eighth annual report which we have had the honor to present may be seen the tabular statistics of the year's work, an account of the membership of the staff and of the medical management of the hospital, together with some suggestions for its welfare and improvement. While the study of the figures appended brings out many interesting and important matters for consideration, we can only pause to note the rapid increase in the number of patients. In 1896 the whole number of patients was 792, which augmented in 1897 to 1,094, an increase of 252. In 1898 the total number treated was 1,245, an average of more than a hundred new patients per month. As nothing has been added to the capacity of the hospital, this increase in the number of patients accommodated has been effected by hastening the cure and dismissing the case, thus making room for a new patient to come in and be treated. These figures indicate a large amount of work performed. The physical examinations which were made are recorded to the number of 5,581. Among these patients, 359 surgical operations were required, and surgical dressings reaching the number of 17,123.

The laboratory work done is particularly noteworthy, the number of chemical, microscopical and bacteriological analyses, examinations and tests numbering into the thousands. The results of all these investigations upon the cases in hospital are recorded in their clinical histories, of which 1,121 were carefully written and filed away during the year. In this connection I cannot refrain from urging upon your atten-

tion a request which has been made more than once before, but so far without avail; namely, that a fireproof vault and safe be provided for the safekeeping of these valuable articles, and also the ordinary registers and record books of the hospital. The laborious scientific accumulations of years might all be lost and the statistics of the hospital thrown into hopeless confusion by a few minutes' fire in the administration portion of the building. A vault of fire-brick in one of the numerous basement rooms for the chemical records, and an ordinary safe such as is seen in every business office for the books in daily use, would cost no great sum of money.

The Children's Hospital, so approvingly mentioned in the last annual report, we are still looking forward to. The need of it was never more evident than it has been all through the past year and is to-day. We had expected to present in this report statistics of work done in the Children's Hospital, but the unfinished building is no more available than if it had never been begun.

We hope to see in the near future at least two things accomplished which it would seem are quite within the power of the department if exerted in that direction. These are, first, the completion of the Children's Hospital, which we think should be put in running order before any other building is begun; and, secondly, the separation of the Cleveland City Hospital as a whole in its management from the Infirmary and Insane Departments.

We believe that, after an evolution of some years, the hospital has now arrived at such a degree of development in its organization and system of service that an entirely separate administration of its own internal affairs is not only feasible but advisable, that such a step will result in the more satisfactory conduct of their affairs and the better care of patients, and will tend to elevate the institution in the estimation of the people. The City Hospital has too long been regarded merely as the sick-room of the poorhouse, whereas it has essayed the duties and should have all the features and be conducted upon the plane of a first-class metropolitan hospital.

The autopsies as well as the laboratory work performed at the hospital are still done under considerable inconvenience, and separate buildings for morgue and laboratory and for con-

tagious diseases yet remain upon our list of wants to be supplied at some time in the future.

The officers of the staff remained the same as last year, but we must record a number of changes and additions in the membership.

Dr. J. Perrier resigned as Obstetrician and Dr. R. E. Skell was elected in his place. Dr. D. K. White was elected Dermatologist and Dr. Wm. E. Wirt as Orthopedist. Dr. H. S. Upson resigned as Neurologist and Dr. H. L. Spence was elected in his stead. Dr. E. P. Carter was elected Pediatrist, Dr. C. J. Aldrich was elected Neurologist and Dr. M. S. Kerruish as Pediatrist.

The home staff at present consists of Dr. J. M. Firmin, House Physician; Dr. C. H. Fitzgerald, First Assistant; W. G. Stern, Second Assistant, and C. M. Hole, Third Assistant House Physician. Their work has been highly commendable, the important labors of the laboratory and the keeping of clinical records having been attended to with especial zeal.

The improvements in the nursing and in the furnishing and care of the wards which we noted in our last report have attained a high standard. For this great credit is due to the Superintendent of the hospital, Miss C. Kirkpatrick. Under her efforts, too, a Training School for Nurses has been established, concerning which and other matters pertaining to the duties of the Superintendent I have asked Miss Kirkpatrick to give us a report, from which I quote as follows:

"The beds, which only number 162, were kept occupied, while the many cases reported by doctors throughout the city as suitable for admission proved the hospital to be inadequate to the wants of the population of more than 350,000 with its usual proportion of poor. The four large front wards occupied by fever and tubercular patients have been made much more comfortable for the winter months by a large radiator which has been placed in the center of each; an even temperature is now kept up. The small rooms and side wards are still without radiators. The surgical cases are placed in these rooms, and the danger of exposing persons to cold after operations is sometimes great. The plumbing of the hospital is in need of a thorough reformation. It is the same which was installed when the hospital was first built and is now quite out

of date. It is a source of unpleasantness and danger, especially to patients in the side wards and in the immediate vicinity of the toilet rooms.

"The health of the nursing staff has been better this last year than during the former. Only one of its members, Miss Della Andrews, was seriously ill. She had typhoid fever, but made a good recovery.

"Within the last few weeks a covering has been placed over the bridge leading to the annex, a protection much appreciated by the nurses during the cold and wet weather.

"There is now a total of 18 nurses, 6 seniors and 12 probationers. The institution of a Training School made it possible to increase the number of nurses without adding to the amount of pay-roll. The salary paid our senior nurses is unfortunately only \$20 per month, a sum quite out of proportion to the qualifications and work required. Several of the trained nurses left, therefore, as soon as they had earned their certificates, and in their places we have probationers who are paid at the rate of \$10 per month. Unless an inducement in the shape of a fair remuneration is held out to these they, in turn, will leave as soon as they are qualified for the work. In a city hospital, where the patients are not drawn altogether from the law-abiding classes, it is especially desirable that the head nurse of each division should be a person of experience and executive ability. It is therefore to be hoped that the City Council may see fit to raise the salaries of the senior nurses to a level with those of other hospitals of the same standing, say to \$30 a month. We should then be able to select and retain the best of each graduating class, and patients and pupils would be more benefited.

"The nurses are willing workers, but their number in proportion to that of the patients is still too small; viz., 1 to 12½ by day and 1 to 32½ by night. The usual average in modern hospitals is a nurse to every three, or at most to every six patients.

"We need nurses for infectious cases, for which there are none at present. Under the existing arrangement when a patient suffering, say from scarlatina, is admitted, as we cannot take nurses from the wards where they are already few enough, the case has to be left to the care of a fellow

patient or an outside nurse is engaged, who of course demands pay at the rate usual outside the City Hospital. She receives \$20 a week, the amount for which our own nurses are obliged to work for a month. If the number of our nurses were increased even to 20 we should be able to care properly for such cases ourselves, as well as to train probationers in a necessary branch of nursing.

"The Training School was started in May, 1897. Eight of the nurses who had already spent some years in the hospital, together with two new probationers, formed the first class. There were courses of lectures on the usual subjects— anatomy, physiology, bacteriology, materia medica and others by members of the Medical Staff and the Superintendent. Examinations were held, and the first graduation of nurses took place September 1, 1898.

"The graduates were:

"1st class—Lola A. Benae, Florence Irvine, Mary E. Lewis.

"2nd class—Lydia Ruetenik, Christina Seguer, Ida Turner, Della M. Andrews, Leona Reynolds, Sophia Folsom, Kate Lamb.

"Certificates were presented signed by the city authorities and officers of the hospital, together with a gold badge bearing the motto 'Fidus et Audax.'

"The second class of probationers, consisting of 12 members, was formed the same month, and the lectures were at once begun, which are a source of much interest and equipment to the nurses.

"The want of proper accommodations for the nurses is much felt. They need bedrooms, bathrooms and a reception room to which they could resort when off duty; in other words, a nurse's home, which is now looked upon as an essential part of every modern hospital.

"In conclusion, sir, we must express the wish that the public might give more attention to the City Hospital. We are sure that if taxpayers would take the trouble to visit the institution and acquaint themselves with its workings, witness the amount of sickness and suffering which there finds relief, understand our needs and appreciate the enthusiasm of the Medical Staff and of the Superintendent and Nursing Corps,

they would better comprehend the necessity, the magnitude and the merciful nature of the work and consider no appropriation too great for its proper extension and maintenance. A visit to the City Hospital would not only touch the humanitarian emotions but arouse the civic pride of every intelligent citizen. The professional work done there will bear scrutiny and, considering the means at hand and the class of patients treated, is not surpassed in the country. We feel that you may safely invite the fullest attention to the hospital and rely upon the generosity of the public to enable you to carry out all the projects mentioned for its improvement."

S. W. KELLEY, M. D.,
Secretary Medical Staff.

DIVISION OF INFIRMARY.

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DIVISION OF INFIRMARY.

995

• OCCUPATIONS.

MALES.

Agent.....	6	Jeweler.....	1
Actor.....	2	Journalist.....	3
Butcher.....	9	Laborer.....	199
Barber.....	8	Loafer.....	1
Blacksmith.....	7	Japanner.....	1
Bartender.....	4	Line Man.....	2
Boilermaker.....	8	Lawyer.....	1
Baker.....	2	Molder.....	2
Builder.....	1	Mason.....	4
Bookkeeper.....	2	Machinist.....	19
Brassworker.....	2	Marble Cutter.....	1
Bricklayer.....	3	Merchant.....	5
Coachman.....	4	Miner.....	3
Cook.....	5	Musician.....	1
Clerk.....	3	Miller.....	1
Carpenter.....	12	Nurse.....	3
Cigarmaker.....	2	Printer.....	3
Cabinetmaker.....	1	Peddler.....	16
Contractor.....	1	Painter.....	14
Cooper.....	6	Puddler.....	1
Candymaker.....	1	Plasterer.....	1
Druggist.....	1	Porter.....	2
Engineer.....	3	Plumber.....	2
Engraver.....	3	Quarryman.....	1
Fisherman.....	1	Railroader.....	8
Farmer.....	13	Roller, Iron.....	4
Fireman.....	6	Roofer.....	1
Florist.....	1	Ship Carpenter.....	1
Gardener.....	3	Salesman.....	5
Gambler.....	1	Stone Cutter.....	8
Hostler.....	7	Sailor.....	6
Huckster.....	1	Shoemaker.....	9
Horse Doctor.....	1	Student.....	1
Ironworker.....	3	Saloonkeeper.....	3
Infant.....	4	Schoolboy.....	3
Insane.....	20	Soldier.....	23

OCCUPATIONS.—Concluded.

MALES.

Telegraph Operator.....	1	Waiter.....	5
Teamster.....	24	Wagonmaker.....	1
Tailor.....	4	Watchmaker.....	1
Teacher.....	2	Watchman.....	2
Tanner.....	1	Wiremaker.....	5
Tinsmith.....	1	No occupation.....	54

FEMALES.

Actress.....	1	Music Teacher.....	1
Clerk.....	1	Nurse.....	5
Cook.....	7	Printer.....	1
Harlot.....	43	Teacher.....	1
Housework.....	203	Ragpicker.....	2
Insane.....	8	Seamstress.....	10
Janitress.....	1	Washwoman.....	5
Laundress.....	4		

MEDICAL.

Diagnosis.	On hand Jan. 1, 1898.		Admitted.		Recovered.	Improved.	Unimproved.	Died.	Discharged.	Transferred.	Complicating Other Diseases.	Remaining Dec. 31, 1898.	Total.
	Males.	Females.	Males.	Females.									
Abscess, Abdominal Wall	1	.....	.....	.....	1	.....	1	.....	.....	.....	1
Abscess, Facial.....	1	.....	.....	1	.....	.....	.....	.....	.....	1	1
Abscess, Irohot-rectal.....	2	.....	.....	2	.....	.....	1	1	1	.....	3
Abscess, Mammary	1	1	.....	.....	.....	1	.....	.....	.....	1
Abscess, Pelvic.....	1	.....	1	1	1	.....	1	.....	.....	.....	1	3
Abscess, Pulmonary.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	1
Abscess, Suprapubic.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....	1
Abortion.....	7	7	.....	.....	.....	6	.....	1	1	8
Acne Vulgaris.....	1	1	.....	.....	.....	1	.....	.....	.....	1
Alcoholism, Acute.....	11	1	12	.....	.....	.....	11	1	.....	.....	12
Amyloid, Liver and Spleen.....	1	.....	1
Amyloid, Spleen and Kidney	1	.....	1
Anemia, Pernicious.....	1	.....	.....	.....	1	.....	.....	.....	.....	1
Aneurism, Aortic.....	1	.....	.....	1	.....	.....	.....	.....	.....	1	1
Anteflexion of Uterus.....	1	.....	1	.....	.....	1	.....	.....	.....	1
Aorta, Dilated.....	1	.....	.....	.....	.....	1	.....	.....	1	.....	4	.....	5

MEDICAL—Continued.

Diagnosis.	On hand Jan. 1, 1898.		Admitted.		Recovered.	Improved.	Unimproved.	Died.	Discharged.	Transferred.	Complicating Other Diseases.	Remaining Dec. 31, 1898.	Total.
	Males.	Females.	Males.	Females.									
Aortic Insufficiency.....	4	1	.....	5	.....	.....	3	1	2	1	7
Aortic Stenosis	1	.....	.....	.....	.....	1	.....	.....	1	.....	2
Appendicitis.....	2	1	3	.....	.....	.....	3	.....	.....	.....	3
Arterio-sclerosis.....	1	6	4	1	2	3	6	1	1	.....	13
Arthritis, Chronic Rheumatoid	1	.....	1	1	1	1	2	.....	.....	.....	.....	3	3
Arthritis, Deformans.....	2	1	.....	3	.....	3	3	.....	2	.....	.....	4	6
Arthritis, Gonorrhoea.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	1
Arthritis of Knee, Traumatic.....	2	1	2	1	.....	3	.....	.....	.....	.....	3
Ascites Abdominalis.....	1	.....	1
Asphyxia, Neonatorum.....	1	.....	.....	.....	1	.....	.....	.....	.....	1
Asthma.....	1	.....	.....	.....	1	.....	1	.....	2	.....	3
Asigmatism.....	1	.....	1	.....	.....	.....	.....	.....	1	1
Auto-intoxication, Intestinal.....	7	3	9	1	.....	.....	6	3	.....	1	10
Blepharitis, Marginalis.....	1	.....	.....	1	.....	.....	1	.....	.....	.....	1
Bronchitis, Acute	3	.....	3	.....	.....	.....	3	.....	.....	.....	3
Bronchitis, Chronic.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	1

MEDICAL—Continued.

Diagnosis.	On hand Jan. 1, 1898.		Admitted.		Recovered.	Improved.	Unimproved.	Died.	Discharged.	Transferred.	Complicating Other Diseases.	Remaining Dec. 31, 1898.	Total.
	Males.	Females.	Males.	Females.									
Broncho pneumonia.....			2	1	3				2	1			3
Bubo.....			9	1	10				10		5		15
Bubo, Chanoroidal.....			1		1				1		1		2
Carcinoma, Gastric.....			4	4			3	5	3				8
Carcinoma, Laryngeal.....	1							1					1
Carcinoma, Mammary.....				1	1				1				1
Carcinoma, Omental.....				1				1					1
Carcinoma of Tongue.....				1			1					1	1
Carcinoma, Uteri.....				3				3				1	1
Cardiac Disease.....			2			2			2				2
Chanoroid.....			4		4				4		2		6
Chlorosis.....				3	3				3				3
Cholecystitis.....				1	1							1	1
Choroiditis.....											1		1
Cirrhosis, Hepatic.....			1		1						2	1	3
Concussion of Brain.....			1		1				1				1

DIVISION OF INFIRMARY.

MEDICAL—Continued.

Diagnosis.	On hand Jan. 1, 1898.		Admitted.		Recovered.	Improved.	Unimproved.	Died.	Discharged.	Transferred.	Complicating Other Diseases.	Remaining Dec. 31, 1898.	Total.
	Males.	Females.	Males.	Females.									
Conjunctivitis, Catarrhal	1	...	...	...	1	...	...	...	1	...	...	...	1
Contusion of Chest	1	...	...	...	1	...	...	...	1	...	...	...	1
Contusion of Face	1	...	1	...	...	...	1	...	...	...	1
Contusion of Foot	2	...	1	1	...	...	2	...	...	...	2
Contusion of Hip	3	1	1	3	...	...	1	...	...	3	4
Contusion of Shoulder	1	...	...	...	1	...	...	...	1
Contusion of Toe	1	...	1	...	...	...	1	...	...	...	1
Copra Stasis	1	1	2	...	...	...	2	...	...	...	2
Coe Senilis	1	1	3	...	...	...	5	...	...	...	...	5
Cyst, Cerebellar	1	...	...	...	1	...	...	...	1	...	...	1
Cyst, Intraligamentary and Ovarian	1	...	...	...	1	...	...	...	1
Cystitis, Acute	3	1	4	...	...	...	4	...	...	...	4
Cystitis, Chronic	2	...	1	...	1	...	2	...	...	...	2
Cystitis, Ulcerative	1	...	...	...	...	1	...	...	...	...	1
Delirium Traumatic	1	...	...	...	...	1	...	...	...	...	1
Delirium Tremens	2	...	11	2	10	2	...	2	10	...	...	1	15

MEDICAL—Continued.

Diagnosis.	On hand Jan. 1, 1898.		Admitted.		Recovered.	Improved.	Unimproved.	Died.	Discharged.	Transferred.	Complicating Other Diseases.	Remaining Dec. 31, 1898.	Total.
	Males.	Females.	Males.	Females.									
Dementia, Acute.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	1
Dementia, Alcoholic.....	2	.....	.....	2	.....	.....	2	.....	.....	.....	2
Dementia, Paralytic.....	1	.....	.....	1	.....	.....	.....	.....	1	1
Dementia, Senile.....	2	1	.....	3	.....	.....	1	1	1	1	4
Diabetes Mellitus.....	1	.....	2	.....	.....	2	.....	1	2	.....	.....	.....	3
Dilatation of Heart, Acute.....	1	.....	.....	1	.....	.....	1	.....	.....	.....	1
Diphtheria.....	1	2	.....	2	.....	1	2	.....	.....	.....	3
Dislocation of Jaw.....	1	.....	.....	1	.....	.....	1	.....	.....	.....	1
Dislocation of Hip.....	1	.....	1
Ectropion.....	1	.....	.....	1	.....	.....	1	.....	.....	.....	1
Eczema of Arm.....	1
Eczema of Face.....	8	.....	.....	3	.....	.....	1	2	.....	.....	3
Eczema of Legs.....	1	.....	1
Eczema of Scalp.....	1	1	1	1	2
Eczema of Universals.....	1	1	1	1	2
Eczema of Vulva.....	1	1	1	1

DIVISION OF INFIRMARY.

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MEDICAL—Continued.

Diagnosis.	On hand Jan. 1, 1898.			Admitted.		Recovered.	Improved.	Unimproved.	Died.	Discharged.	Transferred.	Complicating Other Diseases.	Remaining Dec. 31, 1898.	Total.
	Males.	Females.		Males.	Females.									
Emphysema, Pulmonary.....	1			8			3	6	2	4			3	9
Emphysema, Surgical.....												1		1
Empyema.....	2				1	1	1	1		2				2
Empehialitis.....				1	1			1	1		1			2
Endocarditis, Acute.....												1		1
Endometritis.....		1			6	5	1			6		2		8
Endometritis, Hemorrhagic.....					1		1						1	1
Endometritis, Post, abortive.....					7	7				7				7
Enteritis, Acute.....				1		1				1				1
Epilepsy.....				3				1	2	1				3
Epididymitis, Gonorrhoea.....				6		6				6		1		7
Epididymitis, Tubercular.....												1		1
Erysipelas, Facial.....		1		5	2	8	1			4	3	1	1	9
Erythema Exudativum Multiforme.....					1					1				1
Fibro-adenoma of Parotid.....		1				1				1				1
Fibroid of Uterus.....					1	1				1				1

MEDICAL—Continued.

DIVISION OF INFIRMARY.

1003

Diagnosis.	On hand Jan. 1, 1898.		Admitted.		Recovered.	Improved.	Unimproved.	Died.	Discharged.	Transferred.	Complicating Other Diseases.	Remaining Dec. 31, 1898.	Total.
	Males.	Females.	Males.	Females.									
Fingers, Frozen.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	1
Fistula in Ano.....	1	.....	1	.....	2	.....	.....	.....	2	.....	.....	.....	2
Fistula, Perineal.....	1	.....	1
Fistula, Vesico-vaginal.....	1	.....	.....	1	.....	1	.....	.....	.....	1
Fracture, Collar.....	1	1	.....	.....	.....	.....	.....	1	.....	2
Fracture of Femur, Neck.....	1	.....	4	1	.....	1	2	2	2	.....	1	1	6
Fracture of Fibula.....	1	1	.....	.....	.....	1	.....	.....	.....	1
Fracture of Fibula, Compound.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	1
Fracture of Finger.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	1
Fracture of Humerus, Neck.....	1	.....	1	.....	.....	.....	1	.....	1	.....	2
Fracture of Humerus, Shaft.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	1
Fracture of Humerus, Jaw.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	1
Fracture of Metatarsal Bones.....	1	.....	.....	1	.....	.....	.....	.....	.....	1	1
Fracture of Ribs.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	1
Fracture of Skull, depressed.....	1	1	.....	.....	.....	1	.....	.....	.....	.....	1
Fracture of Tibia.....	1	1	1	.....	1	.....	1	.....	.....	1	2

MEDICAL—Continued.

Diagnosis.	On hand Jan. 1, 1898.		Admitted.		Recovered.	Improved.	Unimproved.	Died.	Discharged.	Transferred.	Completing Other Diseases.	Remaining Dec. 31, 1898.	Total.
	Males.	Females.	Males.	Females.									
Fracture of Tibia and Fibula.....			1			1						1	1
Fracture of Ununited.....											1		1
Fracture of Vertebra, Lumbar.....	2		1			2	1		1		1	2	4
Fracture of Vertebra, Cervical.....													
Frost Bites.....	1		1		1	1				1		1	2
Gall Stones.....				1		1			1				1
Gangrene, Senile.....			1					1			1		2
Gastric, Ulcer.....													1
Gastric, Acute.....			2	1	8				1				3
Gastric, Chronic.....	2		1		8	8			3				3
Gastro-enteritis, Acute.....			1	3	8	1			2	1		1	4
Gonorrhea, Acute.....			3	5	8				8		25		33
Gout.....			1			1			1				1
Hematocele, Pelvic.....				3	3				3				3
Hemiplegia.....	2	2	10	5		4	4	8	3	1	3		22
Hemiplegia, Syphilitic.....			2	1		3				1		2	3

MEDICAL—Continued.

DIVISION OF INFIRMARY.

1005

Diagnosis.	On hand Jan. 1, 1898.		Admitted.		Recovered.	Improved.	Unimproved.	Died.	Discharged.	Transferred.	Complicating Other Diseases.	Remaining Dec. 31, 1898.	Total.
	Males.	Females.	Males.	Females.									
Hemorrhoids Internal.....			1			2				1	1		2
Hemorrhage, Cerebral.....			6				5						6
Hernia, Femoral.....			1			1			1				1
Hernia, Inguinal.....	1		2		3				2	1	1		4
Hernia, Inguinal, incomplete.....				1			1					1	1
Hernia, Abdominal.....				2	1		1		1			1	2
Hydrocele.....			1		1	6			1		6		7
Hydrocephalus, Chronic.....				1				1					1
Hydro-reptosis.....								1			1		1
Hypoplasia of Aortic System.....		1	3			2		2	1			1	4
Hypoplasia of Aortic and Pulmonic System.....				2		1			2				2
Hysteria.....		1	2	4		11	1		6		6	1	13
Ileo-colitis.....			1		1				1				1
Inanition.....			3		3				3				3
Infancy.....			8	20					26			2	28
Infection of Finger.....			2		2				2				2

MEDICAL—Continued.

Diagnosis.	On hand Jan. 1, 1898.		Admitted.		Recovered.	Improved.	Unimproved.	Died.	Discharged.	Transferred.	Complicating Other Diseases.	Remaining Dec. 31, 1898.	Total.
	Males.	Females.	Males.	Females.									
Infection of Foot.....	3	.....	2	1	.....	.....	1	.....	.....	2	3
Infection of Toe.....	2	.....	2	.....	.....	.....	2	.....	.....	.....	2
Insanity, Acute.....	1	.....	1	1	.....	1	.....	1	.....	2
Insanity, Post-alcoholic.....	2	.....	1	1	.....	.....	2	.....	.....	.....	2
Insanity, Post-puerperal.....	1	.....	.....	.....	1	.....	.....	.....	1
Intestinal Obstruction.....	3	.....	.....	.....	.....	3
Irido-cyclitis.....	1	.....	2	.....	.....	.....	1	.....	1	.....	2
Iritis, Traumatic.....	1	.....	1	.....	.....	.....	.....	1	.....	.....	1
Kidney Floating.....	1	.....	.....	.....	1	.....	1
Keratitis.....	1	.....	.....	.....	.....	1	.....	.....	.....	1	.....	.....	1
Keratois.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	.....
Locomotor Ataxia.....	2	.....	2	.....	.....	3	3	.....	3	.....	1	1	5
Lumbago.....	2	.....	2	.....	.....	.....	2	.....	.....	.....	2
Ludwig's Angina.....	1	1	2	.....	.....	.....	2	.....	1	.....	3
Lymphadenitis, Axillary.....	1	.....	.....	.....	.....	.....	1	.....	1
Malarial Fever.....	1	.....	8	.....	11	.....	.....	.....	8	.....	2	1	11

MEDICAL—Continued.

Diagnosis.	On hand Jan. 1, 1898.		Admitted.		Recovered.	Improved.	Unimproved.	Died.	Discharged.	Transferred.	Complicating Other Diseases.	Remaining Dec. 31, 1898.	Total.
	Males.	Females.	Males.	Females.									
Malarial Fever, Pernicious.....	.....	.....	1	.....	.....	.....	1	.....	1	.....	.....	.....	1
Malignery.....	2	.....	28	6	.....	.....	.....	.....	36	.....	.....	.....	36
Marsamus.....	.....	.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	1
Mastitis, Cystic.....	.....	.....	.....	1	1	.....	.....	.....	.....	1	.....	.....	1
Melancholia, Acute.....	.....	.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	1
Melano-sarcoma of Brain.....	.....	.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	1
Meningitis, Acute.....	.....	.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	1
Meningitis, Chronic.....	.....	.....	1	.....	.....	.....	.....	.....	1	.....	.....	.....	1
Mitral Insufficiency.....	1	2	2	1	.....	10	2	.....	4	.....	6	2	12
Mitral Stenosis.....	2	1	2	.....	.....	4	.....	2	3	.....	1	1	6
Monoplegia Hysterical.....	1	.....	.....	.....	.....	1	.....	.....	.....	1	.....	.....	1
Morphine Poisoning.....	.....	.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	1
Morphine Habit.....	.....	.....	1	2	.....	3	.....	.....	8	.....	.....	.....	3
Myocarditis.....	1	1	12	.....	.....	9	3	3	5	4	.....	1	14
Myocarditis, Syphilitic.....	1	1	1	1
Naso-pharyngitis.....	1	1	1	1

DIVISION OF INFIRMARY.

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MEDICAL—Continued.

Diagnosis.	On hand Jan. 1, 1898.		Admitted.		Recovered.	Improved.	Unimproved.	Died.	Discharged.	Transferred.	Complicated Other Diseases.	Remaining Dec. 31, 1898.	Total.
	Males.	Females.	Males.	Females.									
Necrosis of Ilium.....	.....	.....	.....	1	.....	1	.....	.....	1	.....	.....	.....	1
Necrosis of Ribs.....	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	1	1
Necrosis of Tibia.....	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	1	1
Nephritis, Acute.....	.....	.....	2	.....	3	1	.....	.....	2	.....	2	.....	4
Nephritis, Interstitial.....	.....	.....	3	1	.....	1	3	2	1	1	.....	.....	4
Nephritis, Pseudomembranous.....	.....	.....	10	7	.....	6	4	10	8	1	1	.....	20
Neuralgia, Facial.....	1	.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	1
Neuresthesia	1	.....	5	10	.....	13	3	.....	16	.....	.....	.....	16
Neuritis, Alcoholic.....	.....	.....	1	1	.....	2	.....	.....	2	.....	.....	.....	2
Neuritis, Diabetic.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1	.....	1
Neuritis, Multiple.....	.....	.....	1	.....	.....	1	.....	.....	1	.....	.....	.....	1
Neuritis, Ulnar.....	.....	.....	1	.....	.....	1	.....	.....	1	.....	.....	.....	1
Neuronia .....	.....	.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	1
Oedema of Lungs.....	.....	.....	.....	.....	.....	3	1	1	.....	.....	6	.....	6
Onychia Syphilitic.....	1	1	2	2	2
Optic Atrophy	1	1	1	1

MEDICAL—Continued.

DIVISION OF INFIRMARY.

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Diagnosis.	On hand Jan. 1, 1898.		Admitted.		Recovered.	Improved.	Unimproved.	Died.	Discharged.	Transferred.	Complicating Other Diseases.	Remaining Dec. 31, 1898.	Total.
	Males.	Females.	Males.	Females.									
Ovarian Cyst.....			2	2					2				2
Ovaritis.....					8	3					11		11
Palsy Bella			1			1			1				1
Papillitis, Optic.....				1		1			1				1
Paralysis Agitous.....	1		1	1			3		2			1	3
Paraplegia.....			1	1			2					2	2
Pemphigus.....				1	1					1			1
Pericarditis.....			1		1	1			1		1		2
Periostitis of Tibia.....					3						3		3
Peritonitis, Pelvic.....					2	1	1		1			1	2
Peritonitis, Septic.....											1		1
Peritonitis, Tubercular.....													1
Pes Planus.....			4		1	3			3				4
Phimosis.....					4		2		2		2	2	6
Phlebitis, Pelvic.....					1				1				1
Phlebitis, Post Typhoidal.....			1			3			1		2		3

MEDICAL—Continued.

Diagnosis.	On hand Jan. 1, 1898.		Admitted.		Recovered.	Improved.	Unimproved.	Died.	Discharged.	Transferred.	Complication Other Diseases.	Remaining Dec. 31, 1898.	Total.
	Males.	Females.	Males.	Females.									
Pleurisy with Effusion.....	4	1	4	1	.....	.....	4	1	.....	1	6
Pneumonia, Embolic.....	5	.....	4	.....	4	.....	4	.....	3	1	8
Pleuritis Siccæ.....	1	.....	1
Pneumonia, Lobar.....	14	9	8	5	1	11	9	.....	3	4	26
Pneumonia, Senile.....	2	1	1	.....	2	.....	.....	1	.....	.....	3
Pneumonia, Unresolved.....	2	.....	1	.....	.....	1	1	.....	.....	.....	2
Pneumothorax.....	2	.....	.....	.....	2	.....	2
Poliomyelitis, Anterior.....	3	1	.....	.....	4	.....	3	.....	.....	1	4
Pott's Disease.....	1	.....	1	.....	.....	.....	3	1	1	.....	1	1	4
Pregnancy.....	31	.....	.....	.....	31	.....	.....	3	34
Prolapsus Ani.....	1	.....	.....	.....	.....	1	.....	1
Prolapsus Uteri.....	1	1	.....	.....	1	.....	.....	1	2
Prostatitis.....	1	.....	.....	1	.....	.....	.....	1	.....	.....	1
Psoriasis.....	1	.....	.....	1	.....	.....	.....	1
Ptyalism.....	1	.....	.....	.....	.....	1	.....	.....	1	.....	.....	.....	1
Purpura Hemorrhagica.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	1

MEDICAL—Continued.

Diagnosis.	On hand Jan. 1, 1898.		Admitted.		Recovered.	Improved.	Unimproved.	Died.	Discharged.	Transferred.	Complicating Other Diseases.	Remaining Dec. 31, 1898.	Total.
	Males.	Females.	Males.	Females.									
Pyemia Septica.....	1	.....	.....	.....	1	.....	.....	.....	.....	1
Pyopneumothorax.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	1
Pyosalivnx.....	2	2	.....	.....	.....	2	.....	.....	.....	2
Retrocele.....	1	1	.....	.....	.....	1	.....	.....	.....	1
Retinitis Pigmentosa.....	1	.....	1
Retroflexion of Uterus.....	1	.....	1	.....	.....	1	.....	.....	.....	1
Retroversion of Uterus.....	3	1	1	1	.....	2	.....	1	1	4
Rheumatism, Acute Articular.....	2	.....	10	4	13	3	.....	.....	13	.....	3	3	19
Rheumatism, Gonorrhoea.....	1	.....	.....	1	.....	.....	.....	.....	.....	1	1
Rheumatism, Subacute Articular.....	6	1	4	3	.....	.....	6	.....	.....	1	7
Rheumatism, Polyarticular, Chronic.....	1	.....	3	.....	4	.....	.....	.....	4	.....	.....	.....	4
Rodent Ulcer.....	1	.....	.....	.....	1	.....	.....	.....	.....	1	1
Ruptured Pericardium, Traumatic.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	1
Salivation.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	1
Salpingitis.....	1	1	.....	.....	.....	.....	.....	.....	.....	1
Sarcoma of Arm.....	1	.....	.....	1	.....	1	.....	.....	.....	1

MEDICAL—Continued.

Diagnosis.	On hand Jan. 1, 1898.		Admitted.		Recovered.	Improved.	Unimproved.	Died.	Discharged.	Transferred.	Complicating Other Diseases.	Remaining Dec. 31, 1898.	Total.
	Males.	Females.	Males.	Females.									
Sarcoma of Neck.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	1
Sarcoma of Gastric	2	.....	.....	.....	1	1	1	.....	.....	.....	2
Sarcoma of Mammary.....	1	.....	.....	.....	1	.....	.....	.....	.....	1
Sarcoma, Retroperitoneal.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	1
Sarcoma of Testicle	1	.....	.....	.....	.....	1	.....	.....	1	.....	2
Scabies	1	1	2	.....	.....	.....	.....	2	.....	.....	2
Scarlet Fever	1	2	3	.....	.....	.....	2	.....	.....	1	3
Sclerosis, Disseminate.....	3	.....	.....	.....	2	1	1	.....	.....	1	3
Scleritis	7	.....	3	.....	4	.....	6	.....	.....	1	7
Senility.....	3	.....	4	7	.....	9	2	3	6	1	.....	7	14
Septicæmia.....	1	3	.....	.....	.....	4	.....	.....	.....	.....	4
Sinus, Ingual.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	1
Splna Blida.....	1	.....	.....	.....	1	.....	.....	.....	.....	1
Sprained Ankle.....	1	3	2	1	.....	.....	2	1	1	1	5
Sprained Knee.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	1
Sprained Wrist.....	1	.....	1	.....	.....	.....	1	.....	.....	.....	1

MEDICAL—Continued.

Diagnosis.	On hand Jan. 1, 1898.		Admitted.		Recovered.	Improved.	Unimproved.	Di d.	Discharged.	Transferred.	Complicating Other Diseases.	Remaining Dec. 31, 1898.	Total.
	Males.	Females.	Males.	Females.									
Steno-cardia.....	3	.....	2	.....	.....	.....	2	.....	.....	.....	2
Stricture of Rectum.....	1	.....	1	.....	.....	.....	.....	.....	1	1
Stricture of Rectum, Syphilitic.....	2	.....	1	1	1	1	.....	.....	.....	2
Stricture, Urethral.....	3	.....	.....	3	.....	.....	3	.....	.....	.....	3
Sycoosis, Nonparasitic.....	2	.....	.....	2	.....	.....	2	.....	1	.....	3
Synechia Cordis.....	1	.....	1
Synovitis, Knee Joint.....	1	1	1	1	.....	.....	1	.....	.....	1	2
Syphilis, Congenital.....	1	.....	1	.....	.....	1	.....	.....	.....	1
Syphilis, Primary	1	1	.....	2	.....	.....	2	.....	.....	.....	2
Syphilis, Secondary.....	1	1	13	18	.....	34	.....	.....	29	.....	1	4	34
Syphilis, Tertiary.....	1	1	16	15	.....	29	6	1	29	.....	3	4	36
Taenia Circinata.....	1	.....	.....	1	.....	.....	1	.....	.....	.....	1
Taenia Saginata.....	1	.....	.....	.....	.....	.....	.....	.....	1
Thrombosis of Aorta.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	1
Thrombosis of Sup Mesenteric.....	1	.....	.....	1	.....	1
Thrombosis of Ant. Cerebral Artery.....	1	3	.....	.....	.....	4	.....	.....	.....	.....	4

MEDICAL—Continued.

Diagnosis.	On hand Jan. 1, 1898.		Admitted.		Recovered.	Improved.	Unimproved.	Died.	Discharged.	Transferred.	Complicating Other Diseases.	Remaining Dec. 31, 1898.	Total.
	Males.	Females.	Males.	Females.									
Thrombosis of Mid. Cerebral Artery			1					1					1
Tinea Sycois.....			1		1				1				1
Tinea Versicola.....											1		1
Thrush.....			1		1				1				1
Tonsillitis Follicular.....					1				1				1
Trachoma.....			4			3	1		4				4
Trauma of Back.....			1		1					1			1
Tuberculosis, Acute Miliary.....			2					2					2
Tuberculosis, Ankle.....			1	2	2		1		3				3
Tuberculosis, Cervical Glands.....			2		2				2				2
Tuberculosis, Hip-joint.....			1			2					1	1	2
Tuberculosis, Kidneys.....				1	1				1				1
Tuberculosis, Knee-joint.....			3	3	2	1	3		2			4	6
Tuberculosis, Larynx.....						2	3						5
Tuberculosis, Spleen and Peritoneum.....							2						2
Tuberculosis, Pulmonary.....	5	3	61	26	16	24	24	50	24	1		11	86

DIVISION OF INFIRMARY.

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MEDICAL.—Continued.

Diagnosis.	On hand Jan. 1, 1898.		Admitted.		Recovered.	Improved.	Unimproved.	Died.	Discharged.	Transferred.	Complicating Other Diseases.	Remaining Dec. 31, 1898.	Total.
	Males.	Females.	Males.	Females.									
Tumor Mediastinal.....			1				1					1	1
Typhoid Fever.....	2	1	31	7	42				40		1	2	42
Ulcer Crural.....	1		5	3	6	3			6	2		1	9
Ulcer of Foot.....			1		1				1				1
Ulcer of Foot, Infected.....									1				1
Ulcer of Foot, Syphilite.....			1	1	1				1				2
Ulcer of Leg, Varicose.....	1	3	13	2	11	7			12	2		4	19
Undiagnoses.....			6	2	5	2	1		4	2		2	8
Uremia.....											6		6
Urticaria.....						1					1		1
Vaginitis.....												1	1
Varicose Veins, Internal of Leg.....			2	3	2	1			2				3
Varicose Veins, Internal of Leg.....						2			2				2
Warts Venereal.....				1	1				1				1
Wound, Face.....			2		2				2				2
Wound, Scalp.....			2		2				2				2

MEDICAL—Concluded.

RECAPITULATION.

Patients on hand January 1st, 1898.....	153
Received by permit.....	915
Received from Insane Department.....	52
Received from Infirmary Department.....	95
Received by Birth.....	30
<hr/>	
Total treated during 1898	1245
Discharged during 1898	908
Died during 1898.....	182
On hand December 31, 1898.....	159

SURGICAL OPERATIONS 1898.

Operation.	Total No.	Cured.	Improved.	Unimproved.	Died.
Amputation of Breast.....	2	2			
Amputation of Finger.....	1	1			
Amputation of Toes.....	10	10			
Amputation of Leg.....	1	1			
Amputation of Thigh.....	11	11			
Amputation of Tongue.....	1		1		
Aspiration of Abdominal Cavity.....	6		6		
Aspiration of Hydrocele.....	12	2	10		
Aspiration of Knee Joint.....	15		2	13	
Aspiration of Pericardium.....	1	1			
Aspiration of Thorax.....	35	9	26		
Appendectomy.....	2	2			
Cholecystotomy.....	1	1			
Circumcision.....	12	12			
Curettage of Fistula in Ano.....	2		2		
Curettage of Sinuses.....	12		12		
Curettage of Tibia and Fibula for Caries.....	2	1	1		
Curettage of Uterus.....	41	31	9	1	
Dilatation of Rectum.....	1		1		
Excision of Bartholinian cyst.....	1	1			
Excision of Bubo.....	17	17			
Excision of Glands, Axillary.....	2	2			
Excision of Glands, Epitrochlear.....	2			2	
Excision of Glands, Cervical.....	4	3	1		
Excision of Epithelioma.....	1	1			
Excision of Neuroma of Arm.....	2	2			
Excision of Saphenous Veins.....	2	2			
Excision of Larcoma of Neck.....	1	1			
Excision of Lipoma of Back.....	1	1			
Excision of Wen.....	2	2			
Excision of Foreign Bodies.....	4	4			
Graftage for Granular Lids.....	1	1			

SURGICAL OPERATIONS—Continued.

Operation.	Total No.	Cured.	Improved.	Unimproved.	Died.
Hemorrhoids, Clamp and Cautey for.....	6	6			
Herniotomy, Bassini	1	1			
Herniotomy, Kocher—double.....	1	1			
Herniotomy, Kocher—single.....	3	3			
Herniotomy, Ventral-post Operative.....	2	2			
Hystarectomy, Abdominal.....	2	2			
Incision of Abscesses.....	61	47	14		
Incision and Curetting of Bubo.....	4	4			
Incision of Carbuncle.....	3	3			
Incision of Cervical Glands.....	1	1			
Incision of Ischio Rectal Abscess.....	6	3	2	1	
Incision of Leg for Cellulitis.....	2	2			
Incision of Panaritum.....	1	1			
Incision of Haematoma of Thigh.....	1	1			
Incision of Ludwig's Angina.....	2		2		
Incision of Phimosis.....	3	3			
Incision of Knee Joint.....	1	1			
Incision and Curetting of Ankle.....	2	2			
Mobilization of Joints.....	2		2		
Nephrotomy.....	1		1		
Neuroma of Stump Removed.....	2	2			
Oophorectomy.....	7	7			
Perineorraphy.....	9	9			
Plastic Operation about Lide.....	2	2			
Reection of Hip Joint.....	1	1			
Resection of Knee Joint.....	1	1			
Resection of Metatarsal Bones.....	3	3			
Resection of Ribs.....	3	2	1		
Reamputation of Femur.....	1	1			
Salpingoophorectomy.....	2	2			
Skin Grafting.....	6	6			
Stretching Sciatic Nerve.....	2	2			

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SURGICAL OPERATIONS—Concluded.

Operation.	Total No.	Cured.	Improved.	Unimproved.	Died.
Thoracotomy.....	1	1			
Tongue Tie, Operation for.....	1	1			
Tentio Fixatin of Uterus.....	4	3		1	
Unhooding Clitoris.....	2	2			
Total	359	246	95	18	0

ANAESTHETICS.

NUMBER.

Ether.....	29
Chloroform	104
Cocaine.....	31
Ethyl Chloride.....	76

1020 DEPARTMENT OF CHARITIES AND CORRECTION.

Number of Surgical Dressings	17,123
Autopsies Performed.....	93
Clinical Histories Taken and Recorded.....	1,221
Physical Examinations Recorded.....	5,581
<i>Laboratory Department—</i>	
Urine Analysis.....	2,721
Microscopical Examination of Sediment.....	963
Sputum Examinations.....	141
Tests for Diase Reaction.....	299
Urine Stained for Tubercle and other bacilli	63
Inantitative Analysis Albumen in Urine.....	45
Inantitative Analysis of Sugar in Urine.....	7
Inantitative Analysis of Urea (Barometric) and Temperative Corrections.....	9
Inantitative Analysis of Nitrogen (Kjeldahl Method).....	6
Inantitative Analysis of Ammonia.....	9
Inantitative Analysis of total solids.....	8
Culture Media made (Tubes).....	614
Culture grown and Differentiated.....	243
Feces Examined.....	18
Vomitus examined	8
Spectroscopic examinations.....	29
Tissues hardened and imbedded.....	263
Sections cut, stained and mounted.....	196
Blood Examinations for Leucocytosis.....	175
" " " Eosinophiles.....	13
" " " Plasmodia.....	72
" " " Stained.....	112
" " " Counted Red Corpuscles (Zeiss-Thoma Method).....	31
" " " Hamoglobin estimated (Fleischell's)	16
" " " Specific Gravity.....	22
" " " Widal Reaction.....	62
Photo Micrographs made.....	32
Photographs made.....	71
<i>Department of Pharmacy—</i>	
Prescriptions Filled.....	20,380
Syrups made.....	155 gal.
Tinctures "	23 "

DIVISION OF INFIRMARY.

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Elizirs	made.....	78 gal.
Oils	"	7 "
Lotions	"	31 "
Spirits	"	24 "
Waters	"	22 "
Liniments	"	18 "
Hot Drops	"	11 "
Collodion	"	13 "
Listerine	"	88 "
Extracts	"	5 pints.
Salts	"	20 lbs.
Antiseptic Solutions.....		905 gal.

DEPARTMENT OF
CHARITIES AND CORRECTION.
CEMETERIES.

Supervisor's Report.

CLEVELAND, O., January 1, 1899.

HON. WM. J. AKERS,

Director of Charities and Correction.

DEAR SIR:—I hereby present to you the annual report of the Department of Cemeteries for the year ending December 31, 1898.

A glance at the tabulated statements appended will show that the older cemeteries are no longer self-sustaining, which is principally due to the fact that the lots therein are practically all sold. Still, the Cemetery Department is self-sustaining.

Owing to the great expenditure of money required to put the new West Park Cemetery in condition for burial purposes, certain necessary improvements on the older cemeteries had to be postponed. I would suggest that these delayed improvements be commenced as soon as possible, as their accomplishment will be a great benefit to the Department.

I thank you for past courtesies, and hereby extend my thanks to Messrs. Green, Fathauer, Long, Zapf and Palmer for the able manner in which they have assisted me in conducting the business of this department.

Respectfully yours,

C. WAGNER,

Supervisor of Cemeteries.

DIVISION OF CEMETERIES.

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FINANCIAL STATEMENT.

Cash on hand January 1st, 1897.....		\$ 5,882 43
RECEIPTS.		
From sale of land.....		13,335 15
" Interments.....		7,231 50
" Disinterments.....		294 75
" Improvements.....		4,259 00
" Vaultage.....		922 75
Received for exchange.....	\$ 15,000 00	
Loan.....	6,000 00	
Miscellaneous—West Park Cemetery.....	62 91	21,062 91
Total to be accounted for.....		\$ 52,991 49
DISBURSEMENTS.		
For Supervision of Police.....	\$ 6,532 00	
" Office Furniture and Fixtures.....	5 50	
" Cemetery Furniture and Implements.....	26 97	
" Office Supplies and Stationery.....	390 12	
" Care of Horses, Repair of Wagons, etc.....	342 89	
" Fuel, Light, Water and Ice.....	114 86	
" Gardening Material.....	908 29	
" Burial Material.....	798 38	
" Labor.....	13,438 55	
" Repairs to Vaults, Buildings, etc.....	142 58	
" Contingent.....	155 32	
Improvement for West Park Cemetery.....	23,242 91	
Land.....	5,517 00	
Totals.....	\$ 51,610 37	
Cash on hand.....	\$ 1,381 12	
		\$ 52,991 49

NUMBER OF LOTS AND GRAVE SPACES SOLD DURING
THE YEAR, CASH RECEIVED FOR THE
SAME AND AMOUNT OUTSTAND-
ING ON NOTES.

Cemeteries.	Number Sold.	Cash.	Out- standing.	Total.
Woodland	727	\$ 10,468 40	\$ 918 50	\$ 11,386 90
Erie	58	207 50		207 50
Monroe.....	256	1,224 50	63 00	1,287 50
Harvard Grove.....	98	1,434 75	281 25	1,716 00
Total	1,139	13,335 15	\$ 1,262 75	14,597 90

TOTAL NUMBER OF BURIALS IN THE SEVERAL CEME-
TERIES TO JANUARY 1, 1899.

Woodland.....	38,761
Erie.....	17,809
Monroe.....	19,678
Harvard Grove.....	6,153
Total.....	82,400

BURIALS IN THE DIFFERENT CEMETERIES FOR THE YEAR OF 1898.

WOODLAND.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Male Adults.....	30	38	39	35	54	35	48	31	45	35	31	45	466
Male Minors.....	25	26	24	29	31	28	44	40	38	20	19	38	362
Female Adults.....	34	24	33	28	34	25	25	36	23	26	26	42	356
Female Minors.....	18	17	32	30	24	24	29	38	23	13	20	26	294
Total.....	107	105	128	122	143	112	146	145	129	94	96	151	1478

ERIE.

Male Adults.....	3	2	3	5	9	4	8	1	1	1	3	1	41
Male Minors.....	0	3	1	1	2	4	4	7	1	3	1	3	30
Female Adults.....	0	1	4	1	4	2	5	4	4	2	2	4	33
Female Minors.....	1	2	4	4	2	3	4	2	1	3	.....	5	31
Total.....	4	8	12	11	17	13	21	14	7	9	6	13	135

BURIALS IN THE DIFFERENT CEMETERIES FOR THE YEAR 1898.—Concluded.

MONROE.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Male Adults	10	9	11	12	13	7	15	5	16	12	17	15	142
Male Minors	16	11	27	13	16	12	16	18	8	7	9	14	167
Female Adults	16	11	8	10	16	10	10	6	7	14	7	14	129
Female Minors	10	9	15	23	12	5	8	12	10	11	11	7	133
Total	52	40	61	58	57	34	49	41	41	44	44	50	571

HARVARD GROVE.

Male Adults	5	2	3	4	8	7	4	4	6	3	2	2	50
Male Minors	4	8	3	2	3	2	6	6	5	.....	2	3	49
Female Adults	4	5	1	4	7	1	4	1	4	7	5	6	44
Female Minors	1	3	7	8	1	2	6	3	1	6	2	5	40
Total	10	18	14	13	19	12	20	14	16	16	11	16	183

DIVISION OF CEMETERIES.

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CASH RECEIPTS FOR WOODLAND CEMETERY FOR THE YEAR OF 1898.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Sale of lots	\$ 673 25	\$ 867 25	\$ 907 50	\$1,320 25	\$ 918 50	\$ 583 00	\$ 928 95	\$1,016 50	\$ 682 25	\$ 835 20	\$ 828 75	\$ 956 00	\$10,468 40
Interments	306 00	314 25	368 75	365 50	433 50	326 75	409 00	396 50	335 00	320 25	294 25	430 50	4,320 25
Disinterments	2 50	38 50	24 00	9 00	.....	4 00	.....	.....	.....	41 75	44 00	13 00	176 75
Improvements	72 75	65 25	187 25	241 25	960 40	413 00	123 25	122 50	185 75	249 00	160 25	156 55	2,790 15
Vaultage	98 75	39 00	57 25	46 75	70 75	45 00	45 50	48 75	57 25	57 50	33 00	55 75	650 25
Total	\$1,148 25	\$1,324 25	\$1,544 75	\$2,002 75	\$2,823 15	\$1,371 75	\$1,507 70	\$1,584 25	\$1,210 25	\$1,503 70	\$1,300 25	\$1,574 75	\$18,365 80

DISBURSEMENTS.

Pay Roll	\$ 823 50	\$ 665 50	\$ 881 25	\$ 883 25	\$1,255 50	\$1,356 75	\$1,369 75	\$1,307 75	\$1,202 50	\$1,175 75	\$1,023 20	\$ 892 50	\$12,777 20
Improvements .....	.....	.....	.....	110 10	102 27	211 63	49 65	10 65	40 00	82 00	.....	45 00	651 30
Current	92 85	7 00	125 70	125 51	99 27	101 10	100 00	98 00	100 33	40 06	82 44	60 55	1,080 83
Total	\$ 916 35	\$ 672 50	\$1,008 95	\$1,116 86	\$1,457 04	\$1,669 48	\$1,469 40	\$1,416 40	\$1,342 83	\$1,297 83	\$1,105 64	\$ 998 05	\$14,459 33

CASH RECEIPTS FOR ERIE STREET CEMETERY FOR THE YEAR OF 1898.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Sale of lots		\$ 14 50	\$ 18 00	\$ 13 50	\$ 59 00	\$ 11 00	\$ 32 00	\$ 17 00	\$ 12 00	\$ 13 50	\$ 6 00	\$ 11 00	\$ 207 50
Interments	9 75	24 50	36 50	23 75	50 00	26 25	36 75	43 75	24 50	30 25	13 75	18 00	337 75
Disinterments			4 00	4 00	4 00					12 00	4 00		28 00
Improvements		1 00	2 00	21 00	41 00	31 50		26 00	13 00				135 50
Vaultage	24 50		1 00	11 50	4 50	5 00	12 25	4 50	6 50	75	10 50	3 50	84 50
Total	\$ 34 25	\$ 40 00	\$ 61 50	\$ 73 75	\$ 158 50	\$ 73 75	\$ 81 00	\$ 91 25	\$ 56 00	\$ 56 50	\$ 34 25	\$ 32 50	\$ 738 25

DISBURSEMENTS.

Pay Roll	\$ 121 50	\$ 117 00	\$ 147 00	\$ 138 00	\$ 173 25	\$ 158 00	\$ 156 00	\$ 163 50	\$ 141 00	\$ 136 50	\$ 125 25	\$ 125 25	\$ 1,706 25
Improvements					1,352 21								1,352 21
Current	2 00	6 21		22 00	29 90	3 50	7 52	27 00	30 40			26 00	154 53
Total	\$ 123 50	\$ 123 21	\$ 147 00	\$ 160 00	\$ 1,555 36	\$ 161 50	\$ 166 52	\$ 190 50	\$ 171 40	\$ 136 50	\$ 125 25	\$ 151 25	\$3,211 99

CASH RECEIPTS FOR MONROE STREET CEMETERY FOR THE YEAR OF 1898.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Sale of lots	\$ 49 50	\$ 88 50	\$ 104 50	\$ 105 50	\$ 124 50	\$ 87 00	\$164 50	\$ 47 50	\$ 97 00	\$ 125 00	\$ 109 00	\$ 82 00	\$1,224 50
Interments	135 00	158 50	192 00	182 50	196 25	142 00	145 25	126 00	146 00	128 50	170 00	171 00	1,863 00
Disinterments	4 00	.....	12 00	4 00	2 50	.....	.....	.....	.....	.....	33 00	4 00	59 50
Improvements,	29 50	42 50	31 00	158 70	356 50	116 90	97 60	32 50	10 60	43 55	11 00	125 00	1,045 75
Vaultage	6 50	10 50	17 00	26 50	22 50	7 00	4 50	13 50	13 00	15 00	.....	12 50	148 50
Total	\$ 255 50	\$ 300 00	\$ 356 50	\$177 20	\$ 702 25	\$ 352 90	\$ 411 85	\$ 219 50	\$ 266 10	\$ 312 05	\$ 322 00	\$ 384 50	4,371 25

DISBURSEMENTS.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Pay Roll	\$ 226 07	\$ 211 57	\$ 226 82	\$ 256 95	\$ 368 57	\$ 339 07	\$ 315 20	\$ 325 95	\$ 258 07	\$ 249 32	\$ 217 32	\$ 220 48	\$3,215 39
Improvements.....	.....	.....	.....	.....	20 00	17 50	18 04	36 90	30 33	.....	.....	.....	122 77
Current.....	11 00	16 32	.....	3 00	16 40	14 00	18 96	10 09	20 00	24 25	36 72	77 85	248 61
Total .....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	\$3,586 77

CASH RECEIPTS FOR HARVARD GROVE CEMETERY FOR THE YEAR OF 1898.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Sale of lots	\$ 124 00	\$ 42 50	\$ 119 76	\$ 135 00	\$ 190 90	\$ 45 25	\$ 54 75	\$ 218 10	\$ 119 75	\$ 209 25	\$ 90 50	\$ 85 00	\$1,434 75
Interments	50 00	50 00	61 00	64 00	78 50	44 00	63 50	51 50	60 75	53 75	46 75	59 75	683 50
Disinterments	8 00		10 50	12 00									30 50
Improvements	9 00	9 50	19 50	40 50	113 00	30 50	28 00	14 50	1 00	29 10	1 00	2 00	297 60
Vaultage		8 00	1 00	12 00			15 00					3 50	39 50
Total	\$ 191 00	\$ 110 90	\$ 211 75	\$ 263 50	\$ 392 40	\$ 119 75	\$ 161 25	\$ 284 10	\$ 181 50	\$ 292 10	\$ 133 25	\$ 150 25	\$2,486 85

DISBURSEMENTS.

Pay Roll	\$ 127 50	\$ 109 50	\$ 155 25	\$ 163 49	\$ 230 24	\$ 183 24	\$ 177 75	\$ 191 99	\$156 00	\$ 146 25	\$ 133 75	\$ 123 75	\$1,992 71
Improvements													
Current	19 04		18 29		60 20	29 96	50 84	14 97	25 00	33 50		25 00	276 80
Total	\$ 146 54	\$ 109 50	\$ 173 54	\$ 163 49	\$ 290 44	\$ 213 20	\$ 228 59	\$ 206 96	\$ 181 00	\$ 179 75	\$ 133 75	\$ 148 75	\$2,179 51

FINANCIAL SUMMARY.

Balance on hand January 1st, 1898.....			\$ 5,882 43
RECEIVED FOR SALE OF LAND.			
Woodland.....	\$ 10,408 40		
Erie.....	207 50		
Monroe.....	1,224 50		
Harvard Grove.....	1,434 75		
		\$ 13,335 15	
RECEIVED FOR INTERMENTS.			
Woodland.....	\$ 4,320 25		
Erie.....	337 75		
Monroe.....	1 893 00		
Harvard Grove.....	683 50		
		7,234 50	
RECEIVED FOR DISINTERMENTS.			
Woodland.....	\$ 176 75		
Erie.....	28 00		
Monroe.....	59 50		
Harvard Grove.....	30 50		
		294 75	
RECEIVED FOR IMPROVEMENTS.			
Woodland.....	\$ 2,780 15		
Erie.....	135 50		
Monroe.....	1,045 75		
Harvard Grove.....	297 60		
		4,259 00	
RECEIVED FOR VAULTAGE.			
Woodland.....	\$ 650 25		
Erie.....	84 50		
Monroe.....	148 50		
Harvard Grove.....	39 50		
		922 75	
			26,046 15

DIVISION OF CEMETERIES.

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FINANCIAL SUMMARY—Concluded.

RECEIVED FOR EXCHANGE	\$ 15,000 00		
Loan.....	6,000 00		
Miscellaneous—West Park Cemetery.....	62 90		\$ 21,062 91
Grand Total.....			\$ 52,991 49
DISBURSEMENTS.			
Woodland.....	\$ 14,459 33		
Erie.....	3,211 99		
Monroe.....	3,586 77		
Harvard Grove.....	2,179 51		
Dennison.....	161 76		
West Park.....	27,906 56		
Total.....		51,406 92	\$ 51,406 92
Balance in Fund Jan. 1-t, 1899.....			\$ 1,585 57

DEPARTMENT OF
CHARITIES AND CORRECTION.

HOUSE OF CORRECTION.

Superintendent's Report.

HON. WM. J. AKERS,

Director of Charities and Correction.

I submit herewith reports of the conduct of the House of Correction, exhibiting its business operation and statistical and other information in detail for the fiscal year closing December 31, 1898.

Collections at the close of the year brought our cash balance to a very satisfactory figure, notwithstanding our payment of some \$3,300 on account of the continued sewer construction across the rear of the property and the transfer of \$6,000 from our funds to the temporary aid of another city department.

Orders for our product of manufacture have been sufficient to keep our people somewhat steadily employed, and for the amount of business the showing on account of manufacture is satisfactory. Our orders seem to reflect the general business improvement reported throughout the country, and the outlook for the present year gives some promise of increased trade in our line of manufacture.

Receipts from boarding prisoners from without our city and county again show a decided decrease, due naturally to the establishment of workhouses at Columbus and Canton and the opening of the Reformatory at Mansfield. For the current year we are increasing the number of contracts from the northern and eastern portions of the state and renewing contracts with many who formerly sent to us. The advantage of this class of prisoners is in their averaging longer time sentences, whereby more satisfactory returns accrue from the time devoted to their training than from the shorter stay of average local prisoners.

The necessary general repairs and improvements to the property have been made and some improvements of con-

siderable importance are under way. We have very materially improved the facilities for doing the prison washing by re-arrangement of portions of the interior of the factory. We have added considerable to the floor space, and other floors have been overlaid and strengthened; the lighting of the factory has been decidedly improved by altering and extending the skylight, and we have made a valuable addition to our plant in the construction of a bleach-house.

The inventory of buildings and contents varies but little, and is upon the same conservative basis of valuation.

The sewer construction above referred to, in addition to its cost in money, required the services for a considerable period of a couple of guards and quite a number of inmates; but the work has been well done—will last for ages—and when we have completed the filling in the city will possess a very valuable increase of level land, splendidly located for railroad facilities and solid enough for any desired use, whether for a railway switch or building construction. In estimating the inventory value of this improvement we have added to the actual expenditure but one-half of the estimated time of our own labor, computed at 60 cents per day. By the same conservative method has been determined the inventory value of the building and general property.

Some seeming variations in inventory and account captions from last year is due to additional transfers, begun a year ago for the purpose of making our sub-divisions of account correspond as nearly as practicable with those employed in the City Auditor's department.

I desire again to repeat the suggestion I gave first in the report for 1895, by directing attention to the imperative need of the somewhat extensive work of constructing additional fireproof cells, especially for the accommodation of the women inmates, who have for years occupied illy arranged quarters constantly liable to the awful perils of fire. Although we take the utmost care and seek to enforce the most stringent precautionary rules, yet we are subject to ceaseless anxiety on account of this danger and, under certain circumstances, the possible loss of many lives. I call attention to this situation again and with this emphasis, that its needs may be duly appreciated and in the hope that nothing may again interfere

with the construction of this greatly needed improvement when our financial condition may warrant its undertaking.

The report of the House Physician indicates that we have again been fortunately free of epidemics or unusual run of sickness.

The desire to accomplish everything possible for the reformation of our inmates, especially those who are the victims of alcoholism, has received the most earnest co-operation from the good people who have long been so disinterestedly devoted to mission work in our institution. I delight in again expressing my high appreciation of the admirable work performed by Messrs. Daley, Hales, Horton and others under the excellent direction of Captain Fisher; of the ministrations of Father Schmidt and his assistant workers in the Catholic faith, Mr. Martin, Miss Carey, Miss Cain and others; and of the efforts of members of the Salvation Army under the leadership of Captain Dennison. These people deserve the most cordial thanks of our city.

It continues to grow upon me that our first, our greatest duty, is as a house of correction; an institution for the intelligent and persistent endeavor to reclaim to orderly, useful citizenship the unfortunates committed to our care.

The yearly statistics of institutions like ours hardly repay the labor of their keeping if some effort is not made to understand and profit by the lessons they may teach.

It is my conviction that the statistics concerning commitments at this institution for intoxication for twenty years past, indicate clearly that repeated commitments accomplish practically nothing toward the release of victims from the slavery of the drink habit. I believe the instances of reform following the first commitment are very few in number, and that with increasing rarity does reform follow the second or succeeding commitment.

It is true, of course, that while these people are incarcerated families may be relieved in some degree of annoyance and burden, and possibly of menace to life, and that the community is thereby afforded protection to its peace and dignity.

On the other hand it is equally true that such confinement may cripple the sustaining power of many families and remove from the community some measure of the working

force which, when orderly and industrious, constitutes its real basis of wealth and progress.

If the restoration of a victim of the drink habit to habits of sobriety, of industry, and to a sense of the responsibilities of life is a gain to the individual or his family or associates, it is a gain to the community and the state; and the state may be as properly concerned with any means of causing such restoration as it may be concerned in restraining him when his condition menaces the public peace.

If Workhouse commitments have failed per se to redeem the inebriate, and other means in connection with or independent of confinement are proposed, with more or less evidence of reform actually accomplished, should not the state at least seek to inform itself as to their possibilities; and if the state discovers that any of these proposed means have efficacy, real and lasting, does it not become at once the state's welcome duty to make possible their application?

Determining the relative value of the several methods employed in treating the disease of inebriety may be safely left, I think, to the general judgment of the medical profession.

With a method selected and provision made for its employment, experience would soon arrange details, and great indeed would be the interest with which the management of the House of Correction would watch the effect of a new endeavor against the scourge of alcoholism.

In this matter I earnestly invoke a general interest, to the end that we may learn the results of the observation of the highest medical skill and the practical judgment of those experienced in reformatory work.

I desire, in closing, to express my appreciation of the interest in the work of our institution manifested by yourself as Director, by his Honor the Mayor and other officials, and to my subordinate officers and various employes from whom the city has had faithful service.

Respectfully submitted,

PHILIP N. DORN,
Superintendent.

Physician's Report.

HON. W. J. AKERS,

Director of Charities and Correction.

DEAR SIR:—As House Physician at the House of Correction, I have the honor to report as follows for the year ending December 31, 1898.

During the year the cases of illness, though requiring 5,167 prescriptions, have been usually but slight ailments, yielding readily to treatment; while the few cases of serious sickness originated before entering the institution. Of the 41 cases of injuries treated also nearly all were received previous to commitment.

There were but two deaths during the year, both from alcoholism, and very soon after commitment in conditions of extreme weakness.

These brief statistics constitute the highest evidence of the excellent general sanitary condition of the prison, of the quality of the food and the regimen of the institution, which I regard with the highest satisfaction.

The Superintendent continues a constant interest in everything pertaining to the healthfulness of the prison and encourages to the utmost cleanliness and sanitation.

Very respectfully,

DR. CHAS. A. STEDMAN.

House Physician.

1044 DEPARTMENT OF CHARITIES AND CORRECTION.

BALANCE SHEET OF THE HOUSE OF CORRECTION,

	Dec. 31, 1898. Trial Balance.		Jan. 1, 1899. Inventory.
City of Cleveland		\$ 430,313 17	
City Treasurer	\$ 25,128 14		
Cash	300 00		
Bills receivable	2,977 34		
Accounts receivable	15,755 00		
Real estate	40,694 57		\$ 41,823 40
Buildings	275,331 47		276,255 58
Furniture and fixtures, office			545 25
Furniture and fixtures, prison	5,923 86		10,406 67
Heating, lighting and bath system	5,106 05		
Machinery and tools	19,932 73		18,139 15
Improvements and repairs to private property	1,753 77		255 96
Horses, wagons and live stock	695 00		1,608 95
Manufacture	4,074 77		29,097 36
Supervision—salary	21,153 08		
Provisions	13,470 09		964 68
Clothing and bedding	7,683 96		5,969 62
Feed, care horses, wagons, etc	562 15		55 90
Fuel, light and ice	3,483 04		40 00
Expense, office supplies and stationery			275 84
Expense, miscellaneous prison supplies	1,544 71		254 82
Expense, medical supplies	131 04		28 00
Expense, contingent	417 79		
Freight	2,266 52		
Discount	125 65		
Boarding account		16,763 40	
Fines, city cases		1,390 85	
Interest		45 31	
Fuel, light and ice account, Dr	137 36		
To bills payable		137 36	
Jan. 1, 1899, net value of investment			
Total	\$448,650 09	\$448,650 09	\$ 385,721 18

WORKHOUSE.

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JANUARY 1, 1898, TO JANUARY 1, 1899.

Expense.	Gains.	January 1, 1899.	
		Assets and Liabilities.	
		\$ 25,128 14	
		300 00	
		2,977 34	
		15,755 00	
	\$ 1,128 83	41,823 40	
	924 11	276,255 58	
		545 25	
\$ 79 99		10,406 67	
1,798 48		18,139 15	
1,497 81		255 96	
	913 95	1,608 95	
	25,022 59	29,097 36	
21,158 08			
12,505 41		984 68	
1,714 34		5,969 62	
506 25		55 90	
3,443 04		40 00	
		275 84	
1,014 05		254 82	
108 04		28 00	
417 79			
2,266 52			
125 65			
	16,763 40		
	1,390 85		
	45 31		
137 36			
			137 36
To Balance	568 87		
City of Cleveland			429,744 30
\$46,757 91	\$ 46,757 91	\$ 429,881 66	\$429,881 66

**CASH ACCOUNT, HOUSE OF CORRECTION,
JANUARY 1, 1898, TO JANUARY 1, 1899.**

Bal. with City Treasurer Jan. 1, 1898	\$24,319 43			
Bal. in hands Supt. H. of C. Jan. 1, '98	300 00			
		\$24,619 43		
RECEIPTS.				
Manufacture	\$ 54,364 59			
Boarding	20,780 04			
Fines, city cases	1,360 85			
Transportation	480 00			
Miscellaneous	145 34			
		77,150 82		
EXPENDITURES.				
Supervision, salary		\$ 21,633 08		
Office furniture and fixtures		6 95		
Prison furniture and fixtures		196 25		
Horses, wagons, etc.		30 00		
Office supplies, postage		349 21		
Fuel		2,628 14		
Light		635 79		
Ice		233 94		
Miscellaneous prison supplies		641 66		
Medical sundries		106 55		
Feed, care horses, wagons		523 15		
Property repairs		1,232 14		
Provisions		12,588 37		
Clothing and bedding		1,222 96		
Contingent		351 48		
Manufacture		23,289 91		
Machinery		1,065 63		
Freight		854 74		
Land		3,314 19		
		\$ 70,934 14		
Less discounts gained		592 03		
Aggregate expenditure			\$ 70,342 11	
Loan transfer to Cemetery Dep't			6,000 00	
Bal. with City Treasurer Jan. 1, 1899			25,128 14	
Bal. in hands Supt., Jan. 1, 1899			300 00	
		\$101,770 25		25,428 14
				\$101,770 25

**COMPARATIVE STATEMENT, HOUSE OF CORRECTION,
JANUARY 1, 1898, AND JANUARY 1, 1899.**

	Jan. 1, 1898.		Jan. 1, 1899.	
Funds in hands of City Treasurer	\$ 24,319 43		\$ 25,128 14	
Funds in hands Supt. H. of C	300 00		300 00	
		\$ 24,619 43		\$ 25,428 14
Bills receivable.....	\$ 7,492 51		\$ 2,977 34	
Accounts receivable	19,137 51		15,755 00	
		26,630 02		18,732 34
INVENTORY.				
Real estate	\$ 37,486 71		\$ 41,823 40	
Buildings.....	275,331 47		276,255 56	
Office furniture and fixtures			545 25	
Prison furniture and fixtures.....	5,724 61		10,406 67	
Heating, lighting, Bath System	5,114 05			
Machinery and tools.....	18,878 06		18,139 15	
Improvem'ts & rep'rs to pr. prop.	359 89		255 96	
Horses, wagons, harness, etc	665 00		1,608 95	
Manufacture	27,787 09		29,097 36	
Provisions	884 33		964 68	
Clothing and bedding	6,463 00		5,969 62	
Feed, hay, etc	41 75		55 90	
Fuel	54 05		40 00	
Light				
Ice				
Office supplies, expense.....			275 84	
Miscel. prison supplies, expense.	540 52		254 82	
Medical sundries, expense	25 50		28 00	
		379,356 08		385,721 18
		\$430,605 48		\$429,881 66
Less amount bills payable		292 31		137 36
		\$430,313 17		
Assets—net decrease—to balance			\$ 568 87	
Total		\$430,313 17		\$430,313 17

STATISTICAL STATEMENT.

STATEMENT OF FINES AND COSTS COLLECTED IN CITY
AND STATE CASES FOR THE YEAR ENDING
DECEMBER 31, 1898.

Months.	City Fines.	City Costs.	State Fines.	State Costs.	Total.
January.....	88 55	125 30	614 05	136 07	263 97
February.....	97 40	119 88	138 85	153 67	509 80
March.....	168 70	162 30	60 00	80 15	471 15
April.....	177 96	156 65	199 35	113 10	646 06
May.....	75 05	103 75	154 50	176 16	509 46
June.....	91 00	117 10	102 35	143 32	453 77
July.....	178 96	134 45	25 65	13 25	352 30
August.....	99 75	155 50	154 10	97 19	506 54
September.....	150 10	136 68	233 00	138 05	657 83
October.....	79 05	122 20	86 05	67 20	354 50
November.....	107 80	118 75	122 75	44 60	393 90
December.....	76 55	71 85	108 70	29 60	281 70
Total.....	\$1,390 85	\$1,523 41	\$1,994 35	\$1,192 36	\$6,100 97

TABLE NO. 1.
SHOWING POPULATION FOR THE YEAR ENDING
DECEMBER 31, 1898.

	Males.	Females.	Total.
Total number committed to January 1, 1898.....	47,305	8,029	55,334
Total number discharged to January 1, 1898.....	46,924	7,982	54,906
Total number remaining January 1, 1898.....	381	47	428
Number committed in 1898	2,527	270	2,797
Total	2,908	317	3,225
Number discharged in 1898.....	2,665	297	2,962
Number remaining December 31, 1898.....	243	20	263

TABLE NO. 2.
SHOWING NUMBER OF PRISONERS RECEIVED
EACH MONTH.

	Males.	Females.	Total.
Remaining January 1, 1898.....	331	47	428
Received in January.....	219	25	244
" February.....	162	21	183
" March.....	243	25	268
" April.....	221	26	247
" May.....	277	28	305
" June.....	230	20	250
" July.....	194	19	213
" August.....	244	29	273
" September.....	179	25	204
" October.....	206	19	224
" November.....	184	18	202
" December.....	169	15	184
Total.....	2,908	317	3,225
Discharged in 1898.....	2,665	297	2,962
Remaining December 31, 1898.....	243	20	263

TABLE No. 3.
SHOWING NUMBER DISCHARGED DURING
EACH MONTH.

	Males.	Females.	Total.
Discharged in January	298	28	326
" " February	190	21	215
" " March	193	18	211
" " April.....	256	32	288
" " May.....	235	26	261
" " June	270	35	305
" " July.....	216	12	228
" " August.....	235	17	252
" " September	200	26	226
" " October	202	27	229
" " November.....	191	18	209
" " December	179	33	212
Total	2,665	297	2,962

TABLE NO. 4.
DAILY AVERAGE.

	Males.	Females.	Total.
Daily average January	330	47	377
" " February	301	44	345
" " March	296	44	340
" " April	314	45	359
" " May	308	41	344
" " June	306	36	341
" " July	281	28	289
" " August	281	43	324
" " September	257	46	303
" " October	267	43	310
" " November	242	39	281
" " December	249	29	278
Maximum population, January 1, 1898	381	47	428
Minimum population, December 27, 1898	225	22	247
Daily average for year 1898	284	40	324

TABLE NO. 5.
SHOWING HOW DISCHARGED.

	Males.	Females.	Total.
Expiration of sentence (no fine)	14	1	15
Expiration of sentence, fines and costs paid	21	4	25
Fines and costs paid in cash	59	4	63
Fines and costs paid in labor	1,812	148	1,960
Fines and costs paid in labor and cash	518	116	634
Died	2		2
Escaped	3		3
Pardoned	5		5
Paroled	93	15	108
Habeas corpus	1	1	2
Fines remitted	15	1	16
By order of Court	114	7	121
By order of Commissioners of Cuyahoga County	2		2
By order of Commissioners of other Counties	4		4
By order of Mayors	2		2
Total	2,665	297	2,962

TABLE NO. 6.
SHOWING NUMBER OF TIMES COMMITTED
DURING 1898.

		Males.	Females.	Total.
First	Commitment.....	1,264	90	1,354
Second	"	427	41	468
Third	"	251	25	276
Fourth	"	116	17	133
Fifth	"	75	11	86
Sixth	"	51	6	57
Seventh	"	35	3	38
Eighth	"	24	6	30
Ninth	"	20	5	25
Tenth	"	24	5	29
Eleventh	"	23	7	30
Twelfth	"	26	6	32
Thirteenth	"	22	2	24
Fourteenth	"	16	3	19
Fifteenth	"	12	3	15
Sixteenth	"	14	1	15
Seventeenth	"	7	2	9
Eighteenth	"	11	2	13
Nineteenth	"	7		7
Twentieth	"	9	1	10
Twenty-first	"	7	1	8
Twenty-second	"	8	2	10
Twenty-third	"	6	1	7
Twenty-fourth	"	7	3	10
Twenty-fifth	"	5		5
Twenty-sixth	"	5	1	6
Twenty-seventh	"	4	3	7
Twenty-eighth	"	3	3	6

TABLE No. 6—Continued.

SHOWING NUMBER OF TIMES COMMITTED
DURING 1898.

	Males.	Females.	Total.
Twenty-ninth Commitment.....	4		4
Thirtieth ".....	4		4
Thirty-first ".....	2	1	3
Thirty-second ".....	1		1
Thirty-third ".....	2		2
Thirty-fourth ".....	1		1
Thirty-fifth ".....	1	1	2
Thirty-sixth ".....	1		1
Thirty-seventh ".....	1		1
Thirty-eighth ".....	1	1	2
Thirty-ninth ".....	1	1	2
Fortieth ".....	1	2	3
Forty-first ".....	3	1	4
Forty-third ".....	1		1
Forty-fourth ".....	2	2	4
Forty-fifth ".....	1	1	2
Forty-sixth ".....	2		2
Forty-seventh ".....	2	1	3
Forty-eighth ".....	4	1	5
Forty-ninth ".....	2	1	3
Fiftieth ".....	1	1	2
Fifty-first ".....		1	1
Fifty-second ".....		1	1
Fifty-third ".....		1	1
Fifty-fourth ".....		1	1
Sixty-third ".....	1		1
Sixty-fourth ".....	2		2
Sixty-seventh ".....	1		1

TABLE NO. 6—Concluded.
SHOWING NUMBER OF TIMES COMMITTED
DURING 1898.

	Males.	Females.	Total.
Sixty-eighth Commitment	1	.....	1
Sixty-ninth "	1	.....	1
Seventieth "	1	1	2
Seventy-first " .....	.....	1	1
Seventy-second "	1	.....	1
Seventy-third "	1	.....	1
Seventy-fourth "	1	.....	1
Total	3,527	270	2,797

TABLE NO. 7.
SHOWING FROM WHAT COURTS COMMITTED.

	Males.	Females.	Total.
Common Pleas, Cuyahoga County	37		37
" " Lorain "	5		5
Probate Court, Portage County.....	5		5
Justices' Court, Cuyahoga County.....	11	2	13
" " Lake "	10		10
" " Lorain "	2		2
Police Justices' Court of Elyria	11	1	12
" " " Glenville	2		2
" " " Painesville	8		8
United States District Court	5		5
Mayor of Elyria	1		1
" Glenville	1		1
" Kent	1		1
" Lorain.....	6		6
" Lowellville	2		2
" Oberlin	1		1
" Painesville	1		1
" Ravenna	16		16
Police Court, Cleveland	2,402	267	2,669
Total	2,527	270	2,797

TABLE No. 8.
SHOWING NATURE OF OFFENSE.

	Males.	Females.	Total.
Adultery	1	1	2
Assault	1		1
Assault and battery	114	3	117
Breaking into railroad car	4		4
Carrying concealed weapons	18		18
Common beggar	9		9
Common prostitute		37	37
Contempt of court	1		1
Conversion of property as bailee	1		1
Cruelty to animals	5		5
Defrauding innkeeper	3		3
Destruction of property	2	1	3
Disorderly conduct	47	10	57
Disturbance	22	1	23
Embezzlement	5		5
Embezzling letter	1		1
Entering premises to steal poultry	1		1
Escape from Workhouse	2		2
Fornication	1		1
Gambling	1		1
Having in possession and altering obligation of U. S. ...	1		1
Having in possession and passing counterfeit money ...	2		2
Housebreaking	8		8
Indecent exposure of person	2		2
Intoxication	1,750	187	1,937
Keeping house of ill fame		2	2
Keeping opium-joint	1		1
Keeping pool-room	1		1
Larceny	8		8
Malicious destruction of property	1		1

TABLE NO. 8—Concluded.
SHOWING NATURE OF OFFENSE.

	Males.	Females.	Total.
Maliciously injuring property	1		1
Neglect of children.....	13	1	14
Obstructing street railroad track	1		1
Obtaining goods by false pretenses	1		1
Obtaining money by false pretenses	4		4
Petit larceny	238	14	252
Receiving stolen property	8		8
Residing in house of ill-fame.....		4	4
Soliciting.....	1	3	4
Suspicious person.....	68	2	70
Threatening in a menacing manner	5		5
Using obscene language	1		1
Using the U. S. Mail for fraudulent purpose.....	1		1
Vagrancy	42	2	44
Violating bicycle ordinance	1		1
" election law.....	1		1
" election liquor law	1		1
" fishing law	2		2
" measure ordinance.....	1		1
" parole	2		2
" property ordinance	32	1	33
" R. R. law	62		62
" sidewalk ordinance	9	1	10
" Sunday liquor law	14		14
Visiting houses of ill-fame	2		2
Wrongfully using horse	3		3
Total	2,527	270	2,797

TABLE No. 9.
SHOWING SENTENCES OF PRISONERS COMMITTED
DURING 1898.

No.		Fine and Costs.	Days.	Months.
49	Sentenced	From \$ 1 00 to \$ 5 00		
1851	"	" 5 00 to 10 00		
117	"	" 10 00 to 15 00		
103	"	" 15 00 to 20 00		
35	"	" 20 00 to 25 00		
32	"	" 25 00 to 30 00		
19	"	" 30 00 to 35 00		
17	"	" 35 00 to 40 00		
7	"	" 40 00 to 45 00		
2	"	" 45 00 to 50 00		
7	"	" 50 00 to 60 00		
5	"	" 60 00 to 70 00		
1	"	" 70 00 to 80 00		
1	"	" 125 00 to 150 00		
1	"	" 200 00 to 225 00		
1	"	" 451 00		
2	" —no fine.....		1	
1	"		5	
1	"		10	
15	"	From \$ 1 00 to \$ 5 00	10	
8	"	" 5 00 to 10 00	10	
9	"	" 10 00 to 15 00	10	
7	"	" 15 00 to 20 00	10	
1	"	" 20 00 to 25 00	10	
3	"	" 30 00 to 40 00	10	
8	"	" 40 00 to 50 00	10	
1	"	" 50 00 to 60 00	10	
4	"	" 60 00 to 70 00	10	

TABLE No. 9—Continued.

SHOWING SENTENCES OF PRISONERS COMMITTED
DURING 1898.

No.		Fine and Costs.	Days.	Months.
2	Sentenced	From \$ 80 00 to \$ 90 00	10	.....
1	" —no fine.....	.....	15	.....
1	"	From \$ 10 00 to \$ 20 00	15	.....
11	"	" 1 00 to 5 00	20	.....
3	"	" 5 00 to 10 00	20	.....
1	"	" 10 00 to 15 00	20	.....
1	"	" 20 00 to 25 00	20	.....
1	"	" 30 00 to 35 00	20	.....
1	"	" 35 00 to 40 00	20	.....
1	"	" 60 00 to 70 00	20	.....
1	"	" 100 00 to 125 00	20	.....
7	" —no fine.....	.....	30	.....
23	"	From \$ 1 00 to \$ 5 00	30	.....
5	"	" 5 00 to 10 00	30	.....
7	"	" 10 00 to 15 00	30	.....
6	"	" 15 00 to 20 00	30	.....
5	"	" 20 00 to 25 00	30	.....
128	"	" 25 00 to 30 00	30	.....
46	"	" 30 00 to 35 00	30	.....
16	"	" 35 00 to 40 00	30	.....
11	"	" 40 00 to 45 00	30	.....
1	"	" 45 00 to 50 00	30	.....
53	"	" 50 00 to 60 00	30	.....
31	"	" 60 00 to 70 00	30	.....
8	"	" 70 00 to 80 00	30	.....
3	"	" 80 00 to 90 00	30	.....
4	"	" 90 00 to 100 00	30	.....
11	"	" 100 00 to 125 00	30	.....

TABLE NO. 9—Continued.

SHOWING SENTENCES OF PRISONERS COMMITTED
DURING 1898.

No.		Fine and Cost.	Days.	Month.
2	Sentenced	From \$125 00 to \$150 00	30	.....
1	"	" 150 00 to 175 00	30	.....
2	"	" 175 00 to 200 00	30	.....
2	"	" 200 00 to 225 00	30	.....
1	"	" 225 00 to 250 00	30	.....
1	"	" 250 00 to 275 00	30	.....
1	"	" 275 00 to 300 00	30	.....
1	" —no fine.....	.....	40	.....
1	"	From \$100 00	45	.....
1	" —no fine.....	.....	50	.....
1	"	From \$ 5 00 to \$ 10 00	60	.....
1	"	" 10 00 to 20 00	60	.....
1	"	" 20 00 to 30 00	60	.....
2	"	" 50 00 to 60 00	60	.....
2	"	" 60 00 to 70 00	60	.....
2	"	" 80 00 to 90 00	60	.....
2	"	" 90 00 to 100 00	60	.....
5	"	" 100 00 to 125 00	60	.....
3	"	" 150 00 to 175 00	60	.....
1	"	" 419 00	60	.....
1	"	" 30 00 to 40 00	90	.....
1	"	" 80 00 to 90 00	90	.....
3	"	" 100 00 to 125 00	90	.....
1	"	" 150 00 to 180 00	90	.....
1	"	" 250 00 to 275 00	90	.....
2	"	" 50 00 to 60 00	.....	2
2	"	" 25 00 to 30 00	.....	3
1	"	" 5 00 to 10 00	.....	3

TABLE No. 9—Concluded.

SHOWING SENTENCES OF PRISONERS COMMITTED
DURING 1898.

No.		Fine and Costs.	Days.	Months.
2	Sentenced	From \$ 50 00 to \$ 60 00	.....	3
5	"	" 60 00 to 70 00	.....	3
2	"	" 70 00 to 80 00	.....	3
19	"	" 100 00 to 125 00	.....	3
1	"	" 175 00 to 200 00	.....	4
1	"	" 10 00 to 20 00	.....	6
2	"	" 20 00 to 30 00	.....	6
3	"	" 75 00 to 100 00	.....	6
10	"	" 200 00 to 225 00	.....	6
8	"	" 225 00 to 250 00	.....	6
1	"	" 250 00 to 275 00	.....	6
1	" —no fine.....	.....	.....	1 year.
2797	Total.			

TABLE No. 10.
SHOWING AGE OF PRISONERS WHEN COMMITTED.

	Males.	Females.	Total.
Under twenty.....	154	8	162
Twenty and under thirty.....	707	75	782
Thirty and under forty	794	101	895
Forty and under fifty.....	565	65	630
Fifty and under sixty	237	15	252
Sixty and under seventy.....	60	4	64
Seventy and under eighty.....	10	2	12
Total	2,527	270	2,797

TABLE NO. 11.
COLOR.

	Males.	Females.	Total.
White.....	2,361	251	2,612
Colored.....	166	19	185
Total	2,527	270	2,797

TABLE NO. 12.
HABITS OF LIFE.

	Males.	Females.	Total.
Confessed themselves intemperate.....	2,410	263	2,673
Confessed themselves temperate.....	117	7	124
Total	2,527	270	2,797

TABLE NO. 13.
SOCIAL RELATIONS.

	Males.	Females.	Total.
Married	702	202	904
Single.....	1,825	68	1,893
Total.....	2,527	270	2,797

TABLE No. 14.
EDUCATION.

	Males.	Females.	Total.
Could read and write	2,305	226	2,531
Could read only.....	30	8	38
Could neither read nor write.....	192	36	228
Total.....	2,527	270	2,797

TABLE NO. 15.
RELIGIOUS BELIEF.

	Males.	Females.	Total.
Catholics.....	1,427	175	1,602
Protestants.....	1,077	95	1,172
Hebrews.....	13	.....	13
Infidels.....	10	.....	10
Total.....	2,527	270	2,797

TABLE No. 16.

NATIVITY.

	Males.	Females.	Total.
United States.....	1,638	154	1,787
Ireland	262	59	321
Germany.....	169	4	173
England	107	18	125
Canada	65	18	83
Scotland	40	9	49
Austria	40	1	41
Bohemia	33	5	38
Hungaria	24		24
Poland.....	23		23
Wales	22		22
Finland.....	18		18
Sweden	16		16
Slavonia	13	2	15
Italy.....	13		13
Russia.....	10		10
Switzerland	10		10
Norway.....	8		8
France.....	6		6
Isle of Man.....	5		5
Denmark	2		2
New Zealand	2		2
Holland.....	1		1
Belgium.....	1		1
South America	1		1
Cuba	1		1
India	1		1
China.....	1		1
Total.....	2,527	270	2,797

TABLE No. 17.

SHOWING INDUSTRIAL RELATION.

	Males.	Females.	Total.
Agents	5	.....	5
Artists.....	1	.....	1
Baggage master.....	1	.....	1
Bakers.....	27	.....	27
Barbers.....	43	.....	43
Bartenders.....	8	.....	8
Blacksmiths.....	22	.....	22
Blacksmiths' helpers.....	3	.....	3
Boat captains.....	1	.....	1
Boilermakers.....	34	.....	34
Boltmakers.....	3	.....	3
Bookbinders.....	4	.....	4
Bookkeepers.....	9	.....	9
Boxmakers.....	2	.....	2
Brakeman.....	12	.....	12
Brass finishers.....	6	.....	6
Brewers.....	2	.....	2
Bricklayers.....	19	.....	19
Bridgebuilders.....	5	.....	5
Buffers.....	3	.....	3
Butchers.....	29	.....	29
Cabinetmakers.....	2	.....	2
Candymakers.....	1	.....	1
Carbonmakers.....	1	.....	1
Carbuilders.....	1	.....	1
Carpenters.....	59	.....	59
Carpetlayers.....	2	.....	2
Carpetweavers.....	1	.....	1
Carriagemakers.....	3	.....	3
Carriage painters.....	2	.....	2

TABLE NO. 17—Continued.

	Males.	Females.	Total.
Casemakers.....	1		1
Caulkers.....	1		1
Chainmakers.....	1		1
Cigarmakers.....	13	1	15
Cigarpackers.....	1		1
Clerks.....	21		21
Clockmakers.....	1		1
Coachmen.....	4		4
Coalminers.....	2		2
Collarmakers.....	1		1
Commercial travelers.....	1		1
Conductors.....	2		2
Confectioners.....	1		1
Cooks.....	41	15	56
Coopers.....	7		7
Coremakers.....	10		10
Domestics.....		224	224
Draftsmen.....	1		1
Dressmakers.....		10	10
Druggists.....	3		3
Electricians.....	2		2
Engineers.....	30		30
Engravers.....	1		1
Expressmen.....	2		2
Farmers.....	3		3
Firemen.....	115		115
Fishermen.....	1		1
Florists.....	4		4
Forgers.....	1		1
Furniture packers.....	2		2
Gardeners.....	5		5
Gasmakers.....	1		1
Glassblowers.....	7		7
Hardwood finishers.....	5		5

WORKHOUSE.

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TABLE No. 17—Continued.

	Males.	Females.	Total.
Harnessmakers.....	3	3
Hatters.....	2	2
Heaters.....	4	4
Hod carriers.....	1	.....	1
Horseshoers.....	11	.....	11
Ironworkers.....	19	.....	19
Jewelers.....	3	.....	3
Jockeys.....	1	.....	1
Laborers.....	1,182	.....	1,182
Lathers.....	1	.....	1
Launderers.....	1	.....	1
Laundresses.....	.....	10	10
Lawyers.....	1	.....	1
Linemen.....	2	.....	2
Machinists.....	69	.....	69
Mantelsetters.....	1	.....	1
Masons.....	9	.....	9
Millers.....	2	.....	2
Milliner.....	.....	1	1
Millwright.....	1	.....	1
Moulders.....	69	.....	69
Nailmakers.....	2	.....	2
Nickleplaters.....	7	.....	7
Nursees.....	2	1	2
Nutoutter.....	2	.....	2
Painters.....	103	.....	103
Paperhangers.....	4	.....	4
Papermakers.....	2	.....	2
Pavers.....	1	.....	1
Peddlers.....	2	.....	2
Photographers.....	1	.....	1
Physicians.....	1	.....	1
Plasterers.....	7	.....	7
Plumbers.....	6	.....	6

TABLE No. 17—Continued.

	Males.	Females.	Total.
Polishers.....	13		13
Porters.....	2		2
Postal clerk.....	1		1
Potters.....	2		2
Pressmen.....	4		4
Printers.....	20		20
Puddlers.....	18		18
Quarrymen.....	1		1
Reporters.....	1		1
Riveters.....	4		4
Rivet heaters.....	3		3
Rollers.....	2		2
Roofers.....	3		3
Roughers.....	7		7
Sailors.....	43		43
Salesmen.....	9		9
Saloonkeepers.....	6		6
Seamstresses.....		5	5
Shipbuilders.....	4		4
Shipping clerks.....	1		1
Shoemakers.....	36		36
Slaters.....	7		7
Springmakers.....	7		7
Steamfitters.....	7		7
Stereotypers.....	1		1
Stonecutters.....	13		13
Stonemasons.....	2		2
Stovemounters.....	7		7
Surveyors.....	1		1
Switchmen.....	19		19
Tailors.....	33		33
Tanners.....	1		1
Telegraphers.....	5		5
Tinners.....	34		34

WORKHOUSE.

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TABLE NO. 17—Concluded.

	Males.	Females.	Total.
Toolgrinders.....	3	3
Undertakers.....	1	1
Upholsterers.....	7	.....	7
Varnishers	6	.....	6
Waiters	36	3	39
Watchcase-makers.....	1	.....	1
Watchmakers.....	3	.....	3
Weavers	3	.....	3
Well drillers.....	2	.....	2
Whitewashers.....	10	.....	10
Wiredrawers.....	9	.....	9
Wireworkers.....	2	.....	2
Woodworkers.....	2	.....	2
Total.....	2,527	270	2,797

